

Test Report

Product Name : 54M Wireless PCI Adapter
Model No. : TL-WN353G, TL-WN353GD
FCC ID : TE7WN353G

Applicant : TP-LINK Technologies Co., Ltd
Address : Building 7, Section 2, Honghualing Industrial Park,
Xili, Nanshan District, Shenzhen, P.R.C.

Date of Receipt : 2007/07/04
Issued Date : 2007/08/06
Report No. : 077S019-RF-US-P05V01

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNLA, NVLAP, NIST or any agency of the Government.

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Test Report Certification

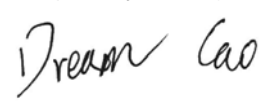
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Product Name : 54M Wireless PCI Adapter
 Applicant : TP-LINK Technologies Co., Ltd
 Address : Building 7, Section 2, Honghualing Industrial Park, Xili,
 Nanshan District, Shenzhen, P.R.C.
 Manufacturer : TP-LINK Technologies Co., Ltd
 Model No. : TL-WN353G, TL-WN353GD
 FCC ID : TE7WN353G
 Rated Voltage : AC 120V/60Hz
 EUT Voltage : DC 3.3V
 Trade Name : TP-LINK
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2007
 ANSI C63.4: 2003
 Test Result : Complied
 Performed Location : SuZhou EMC laboratory
 No.99 Hongye Rd., Suzhou Industrial Park Loufeng
 Hi-Tech Development Zone., SuZhou, China
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 FCC Registration number: 800392

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Laboratory Information

We , **QuietTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

Taiwan R.O.C.	: BSMI, DGT, CNLA
Germany	: TÜV Rheinland
Norway	: Nemko, DNV
USA	: FCC, NVLAP
Japan	: VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from QuietTek Corporation's Web Site : <http://tw.quietek.com/modules/myalbum/>
 The address and introduction of QuietTek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>
 If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. General Information

1.1. EUT Description

Product Name	54M Wireless PCI Adapter
Trade Name	TP-LINK
Model No.	TL-WN353G, TL-WN353GD
FCC ID	TE7WN353G
Working Voltage	DC 3.3V
Frequency Range	802.11b/g: 2412-2462 MHz
Channel Number	802.11b/g: 11
Type of Modulation	802.11b: DSSS 802.11g: OFDM
Channel Control	Auto
Antenna type	Dipole
Antenna Gain	5.0dBi

Note:

The EUT is including two models for different marketing requirement. The only difference is the type of antenna; the antenna of TL-WN353G is fixed, while another is removable, From above two models, TL-WN353G was selected as a representative model for the test and its data was recorded in this report.

802.11b/g Antenna List

No.	Manufacturer	W.Y.P/No.	Peak Gain
1	WHA YU INDUSTRIAL CO., LTD	SSR-00302	1.8dBi for 2.4G
2	WHA YU INDUSTRIAL CO., LTD	SSR-00193-01	1.8dBi for 2.4G

802.11b/g Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	--	--

1.2. Mode of Operation

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g

Note:

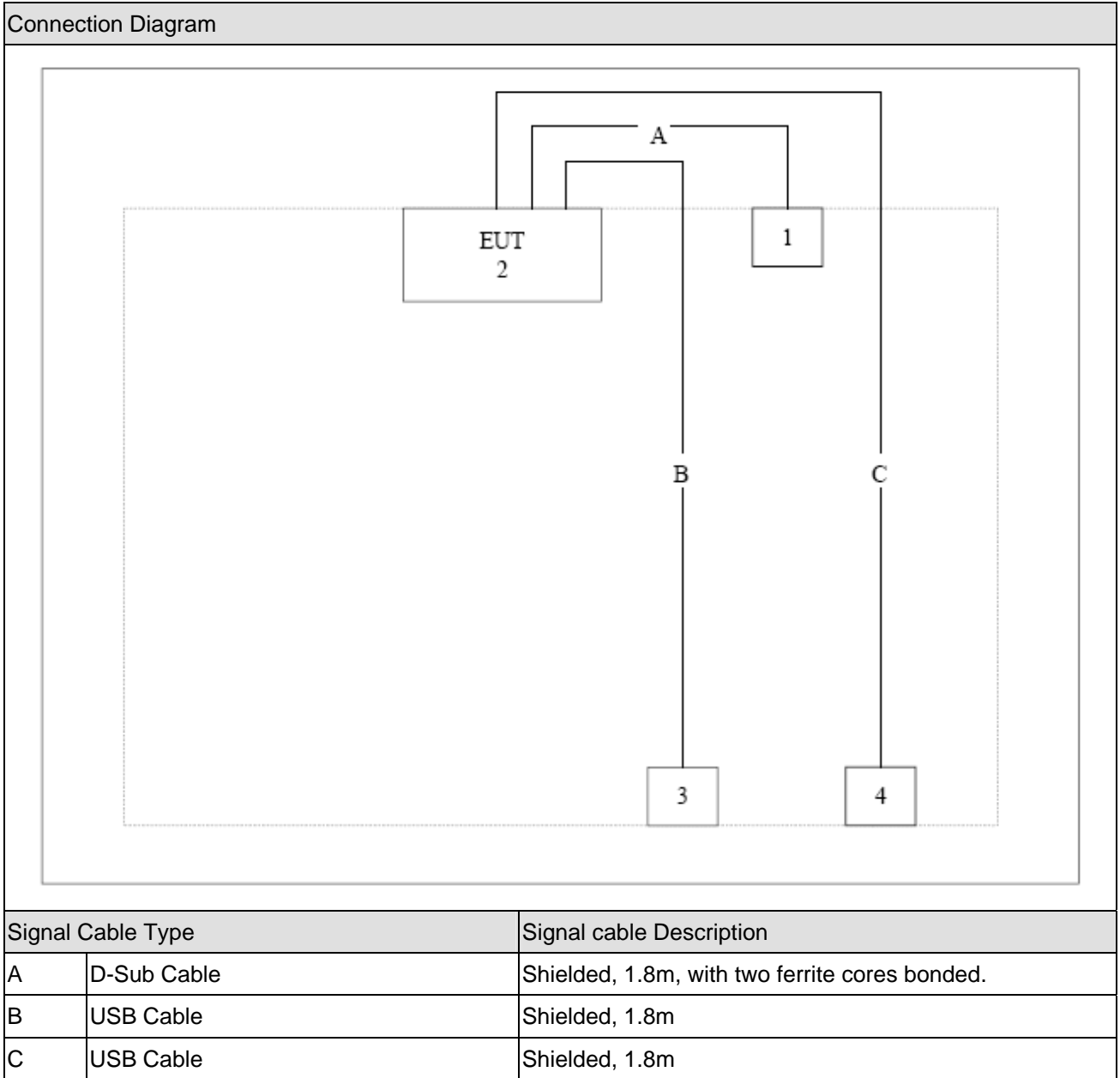
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 077S019-RF-US-P01V02, certified under Declaration of Conformity.

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 LCD Monitor	CHI MEI	A170E1-03	36C112338M20681	Power by adaptor
2 PC	HP	DC7600 CMT	CNG5460DC6	Non-Shielded, 1.8m
3 USB Keyboard	DELL	L100	CN0RH656658906CG0002	Power by PC
4 USB Mouse	DELL	M-UVDEL	N/A	Power by PC
5 Notebook	DELL	PP19L	JH097 A01	Power by adaptor

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4.
2	Use the control software to set the EUT working at continues transmission or receiver mode, test it at 802.11b and 802.11g separately, with the first and last channel.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

Emission			
Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.209	Yes	No
Peak Output Power	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(b)(3)	Yes	No
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(a)(2)	Yes	No
Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.215(c), 15.247(d)	Yes	No
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(e)	Yes	No

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	25
Humidity (%RH)	25-75	48
Barometric pressure (mbar)	860-1060	950-1000

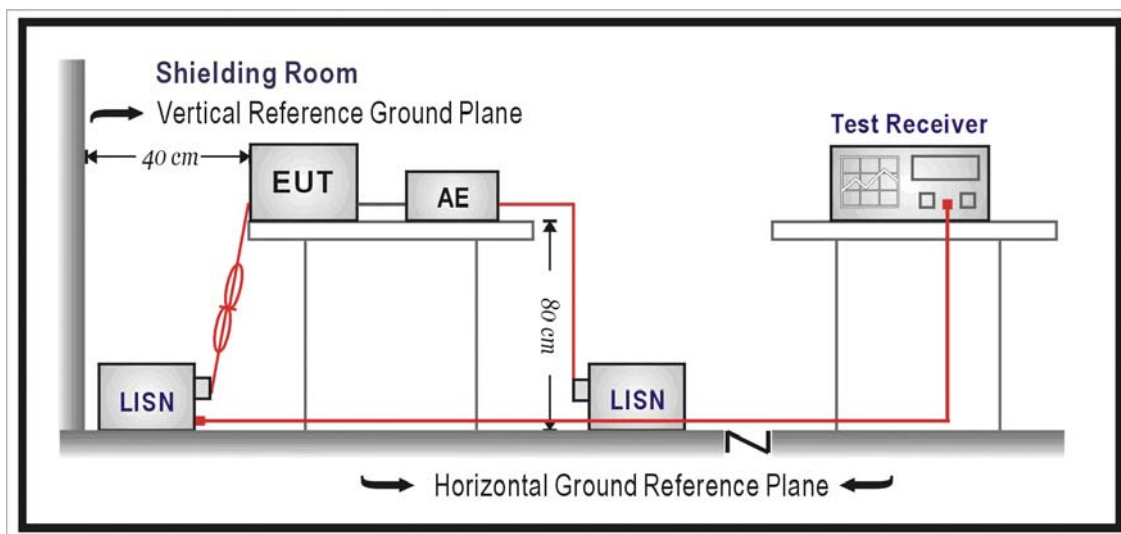
3. Conducted Emission

3.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCI	100176	2006/11/22
Two-Line V-Network	R&S	ENV216	100013	2006/11/20
Two-Line V-Network	R&S	ENV216	100014	2006/11/20
50ohm Coaxial Switch	ANRITSU	MP59B	6200464462	2006/11/25
50ohm Termination	SHX	50ohml	QT-IM001	2007/03/20
Coaxial Cable	Luthi	RG214	519358	2006/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2007/03/31

3.2. Test Setup



3.3. Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

(Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

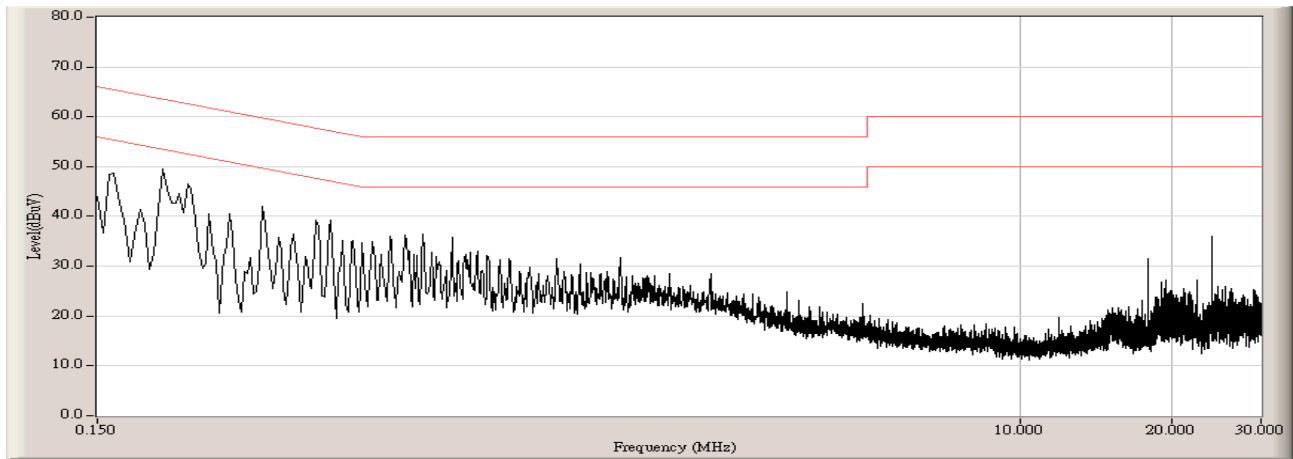
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Uncertainty

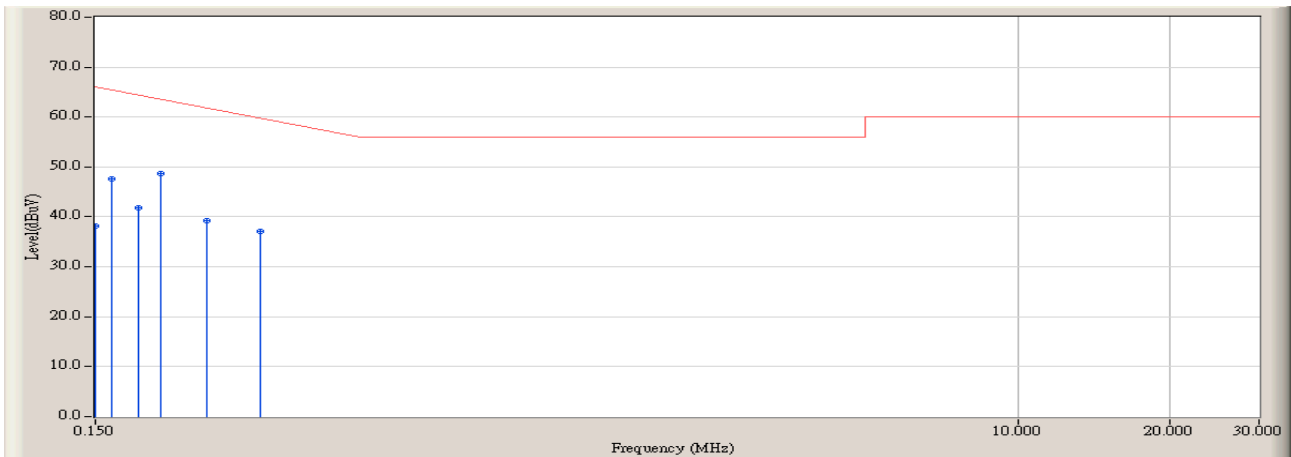
The measurement uncertainty is defined as ± 2.02 dB

3.6. Test Result

Engineer : Johnwang	
Site : SR-1 (Conducted Emission)	Time : 2007/07/14 - 10:06
Limit : FCC_Part15_B_00M_QP	Margin : 10
EUT : 54M Wireless PCI Adapter	Probe : ENV216 - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2437MHz)



Engineer : Johnwang	
Site : SR-1 (Conducted Emission)	Time : 2007/07/14 - 10:06
Limit : FCC_Part15_B_00M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : ENV216 - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2437MHz)

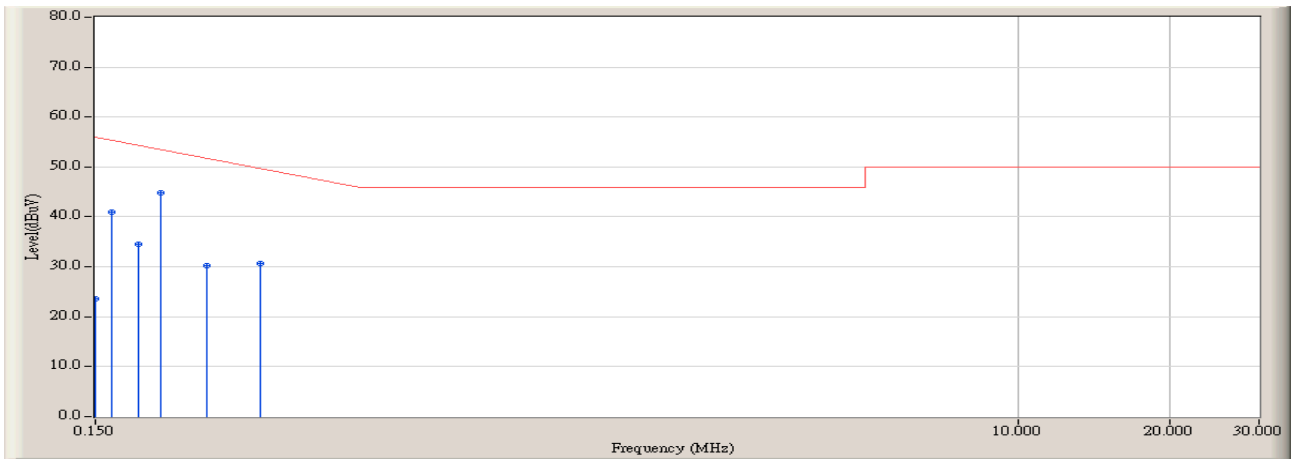


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.174	28.000	38.174	-27.826	66.000	QUASIPeAK
2		0.162	10.140	37.400	47.540	-18.117	65.657	QUASIPeAK
3		0.182	9.681	32.200	41.881	-23.205	65.086	QUASIPeAK
4	*	0.202	9.427	39.300	48.727	-15.787	64.514	QUASIPeAK
5		0.250	9.345	29.900	39.245	-23.898	63.143	QUASIPeAK
6		0.318	9.422	27.700	37.122	-24.078	61.200	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Johnwang	
Site : SR-1 (Conducted Emission)	Time : 2007/07/14 - 10:06
Limit : FCC_Part15_B_00M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : ENV216 - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2437MHz)

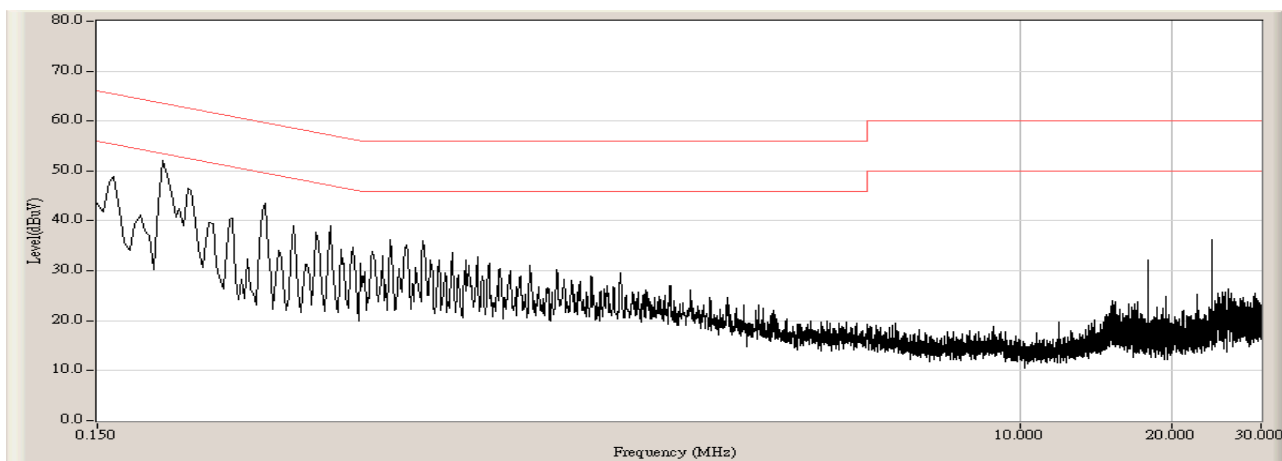


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.174	13.500	23.674	-32.326	56.000	AVERAGE
2		0.162	10.140	30.800	40.940	-14.717	55.657	AVERAGE
3		0.182	9.681	24.800	34.481	-20.605	55.086	AVERAGE
4	*	0.202	9.427	35.400	44.827	-9.687	54.514	AVERAGE
5		0.250	9.345	20.900	30.245	-22.898	53.143	AVERAGE
6		0.318	9.422	21.200	30.622	-20.578	51.200	AVERAGE

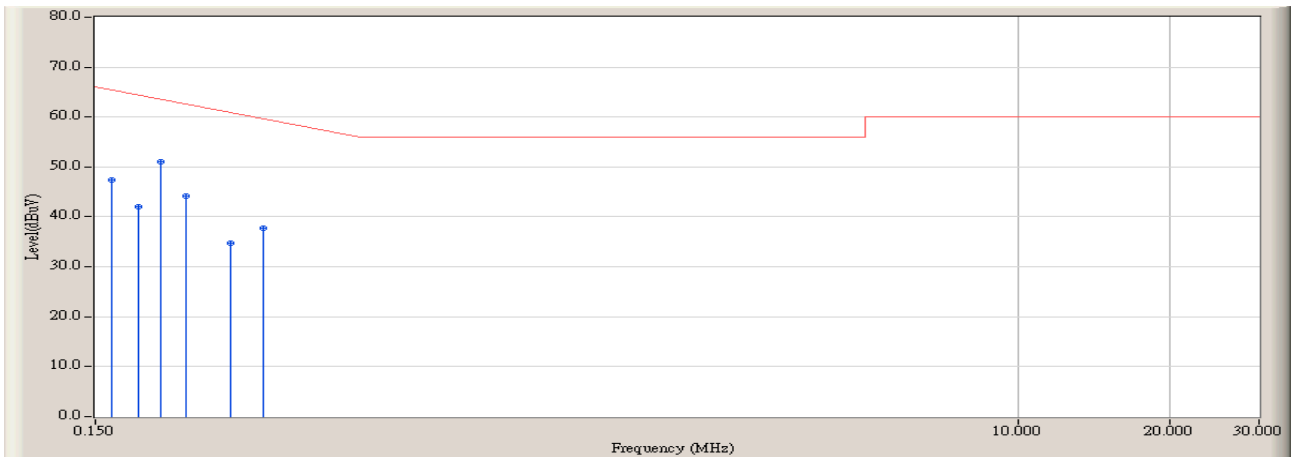
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Johnwang	
Site : SR-1 (Conducted Emission)	Time : 2007/07/14 - 10:11
Limit : FCC_Part15_B_00M_QP	Margin : 10
EUT : 54M Wireless PCI Adapter	Probe : ENV216 - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2437MHz)



Engineer : Johnwang	
Site : SR-1 (Conducted Emission)	Time : 2007/07/14 - 10:11
Limit : FCC_Part15_B_00M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : ENV216 - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2437MHz)

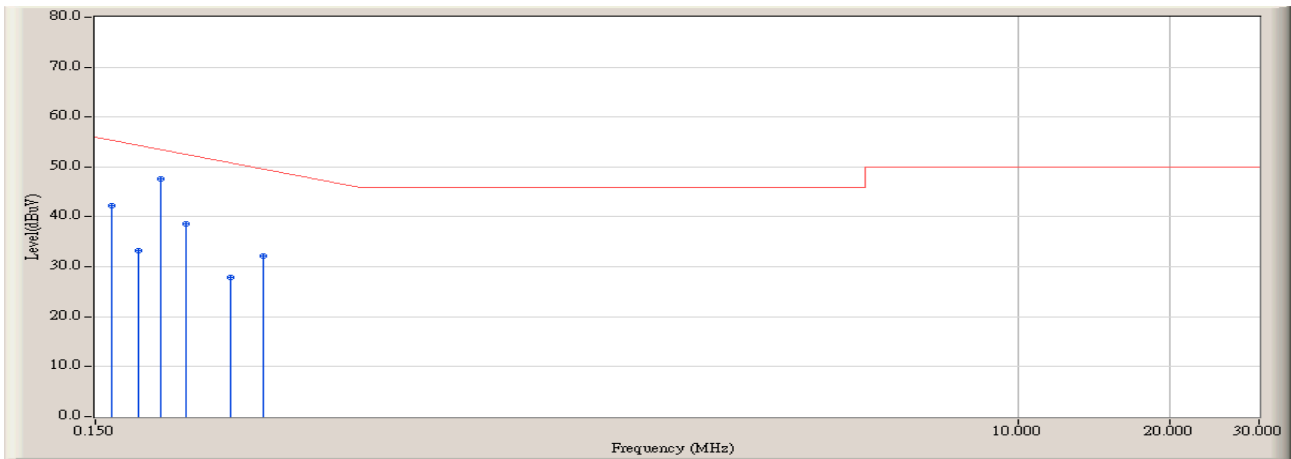


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.641	37.700	47.341	-18.316	65.657	QUASIPeAK
2		0.182	9.515	32.500	42.015	-23.071	65.086	QUASIPeAK
3	*	0.202	9.455	41.500	50.956	-13.558	64.514	QUASIPeAK
4		0.226	9.437	34.700	44.137	-19.692	63.829	QUASIPeAK
5		0.278	9.499	25.300	34.799	-27.544	62.343	QUASIPeAK
6		0.322	9.543	28.100	37.643	-23.443	61.086	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Johnwang	
Site : SR-1 (Conducted Emission)	Time : 2007/07/14 - 10:11
Limit : FCC_Part15_B_00M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : ENV216 - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2437MHz)

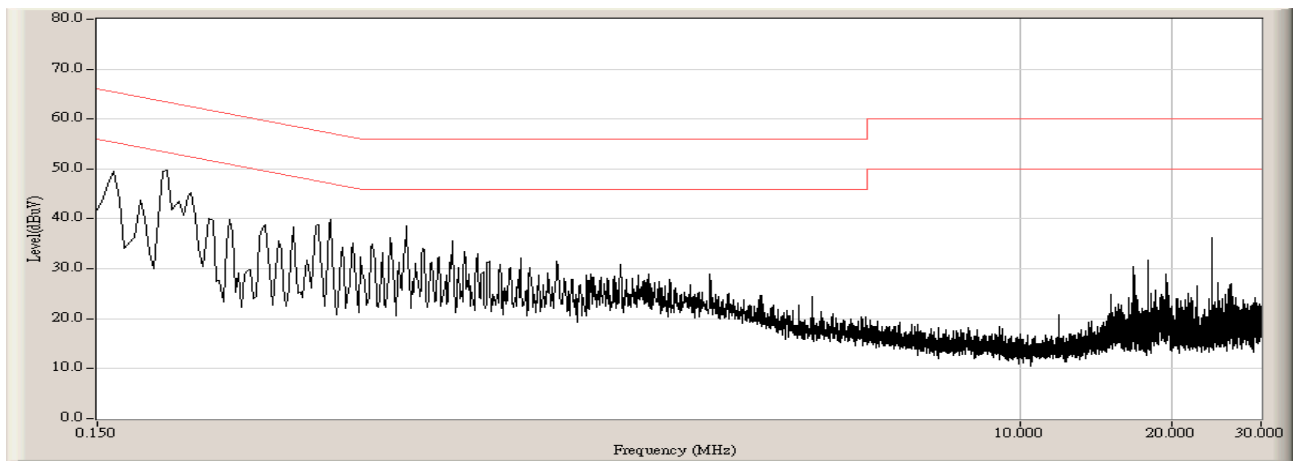


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.641	32.700	42.341	-13.316	55.657	AVERAGE
2		0.182	9.515	23.700	33.215	-21.871	55.086	AVERAGE
3	*	0.202	9.455	38.200	47.656	-6.858	54.514	AVERAGE
4		0.226	9.437	29.100	38.537	-15.292	53.829	AVERAGE
5		0.278	9.499	18.300	27.799	-24.544	52.343	AVERAGE
6		0.322	9.543	22.700	32.243	-18.843	51.086	AVERAGE

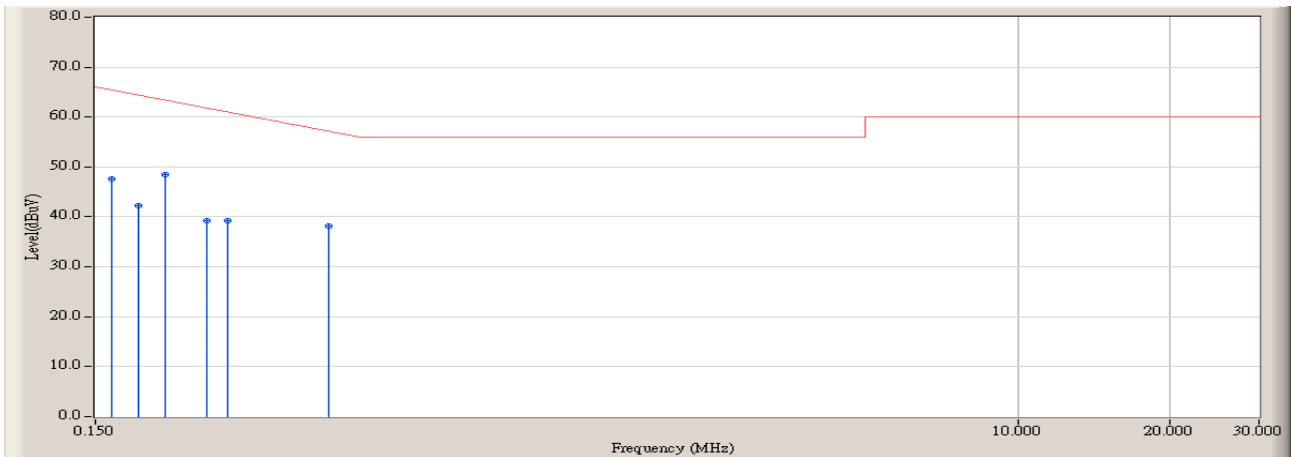
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Johnwang	
Site : SR-1 (Conducted Emission)	Time : 2007/07/14 - 10:27
Limit : FCC_Part15_B_00M_QP	Margin : 10
EUT : 54M Wireless PCI Adapter	Probe : ENV216 - Line1
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2437MHz)



Engineer : Johnwang	
Site : SR-1 (Conducted Emission)	Time : 2007/07/14 - 10:29
Limit : FCC_Part15_B_00M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : ENV216 - Line1
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2437MHz)

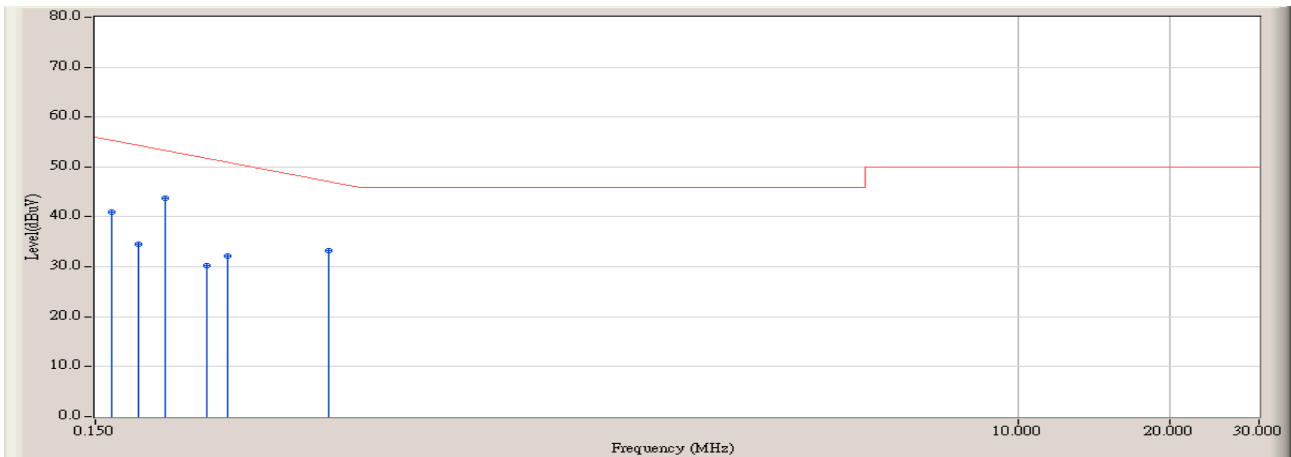


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	10.140	37.500	47.640	-18.017	65.657	QUASIPeAK
2		0.182	9.681	32.500	42.181	-22.905	65.086	QUASIPeAK
3	*	0.206	9.398	39.000	48.398	-16.002	64.400	QUASIPeAK
4		0.250	9.345	29.900	39.245	-23.898	63.143	QUASIPeAK
5		0.274	9.375	29.800	39.175	-23.282	62.457	QUASIPeAK
6		0.434	9.545	28.600	38.145	-19.741	57.886	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Johnwang	
Site : SR-1 (Conducted Emission)	Time : 2007/07/14 - 10:29
Limit : FCC_Part15_B_00M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : ENV216 - Line1
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2437MHz)

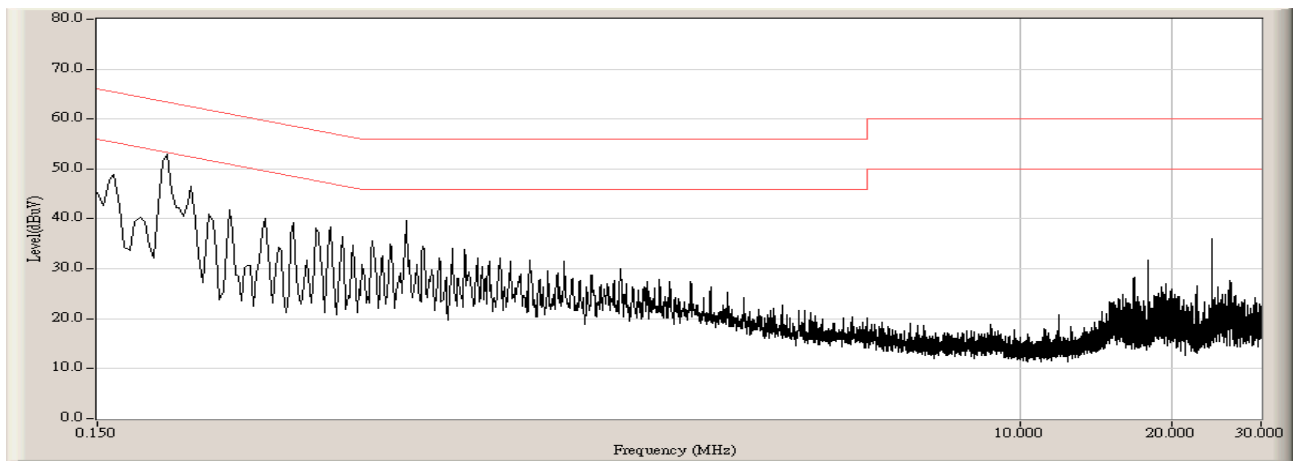


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	10.140	30.900	41.040	-14.617	55.657	AVERAGE
2		0.182	9.681	24.800	34.481	-20.605	55.086	AVERAGE
3	*	0.206	9.398	34.400	43.798	-10.602	54.400	AVERAGE
4		0.250	9.345	20.800	30.145	-22.998	53.143	AVERAGE
5		0.274	9.375	22.700	32.075	-20.382	52.457	AVERAGE
6		0.434	9.545	23.800	33.345	-14.541	47.886	AVERAGE

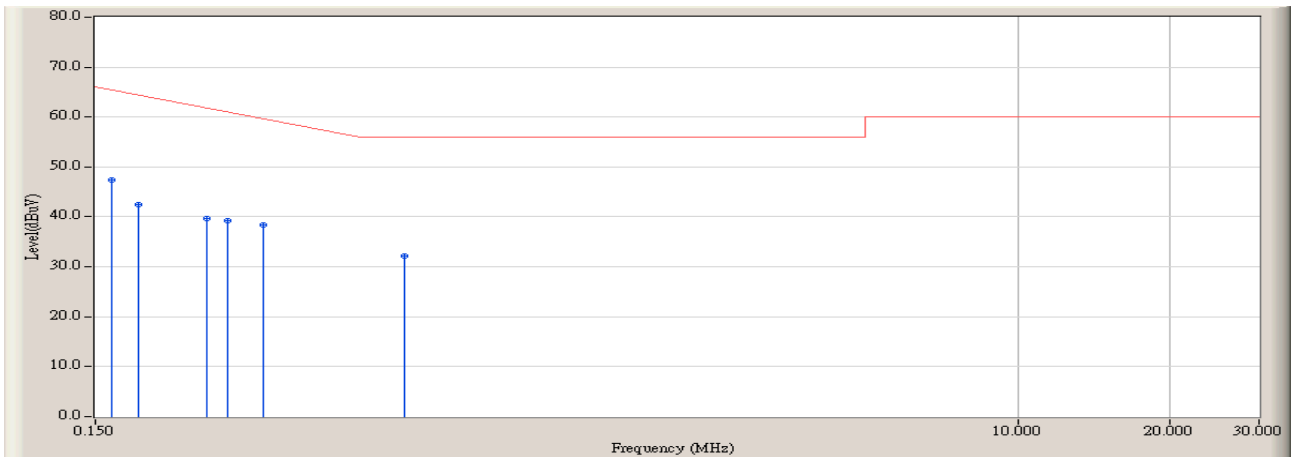
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Johnwang	
Site : SR-1 (Conducted Emission)	Time : 2007/07/14 - 10:32
Limit : FCC_Part15_B_00M_QP	Margin : 10
EUT : 54M Wireless PCI Adapter	Probe : ENV216 - Line2
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2437MHz)



Engineer : Johnwang	
Site : SR-1 (Conducted Emission)	Time : 2007/07/14 - 10:34
Limit : FCC_Part15_B_00M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : ENV216 - Line2
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2437MHz)

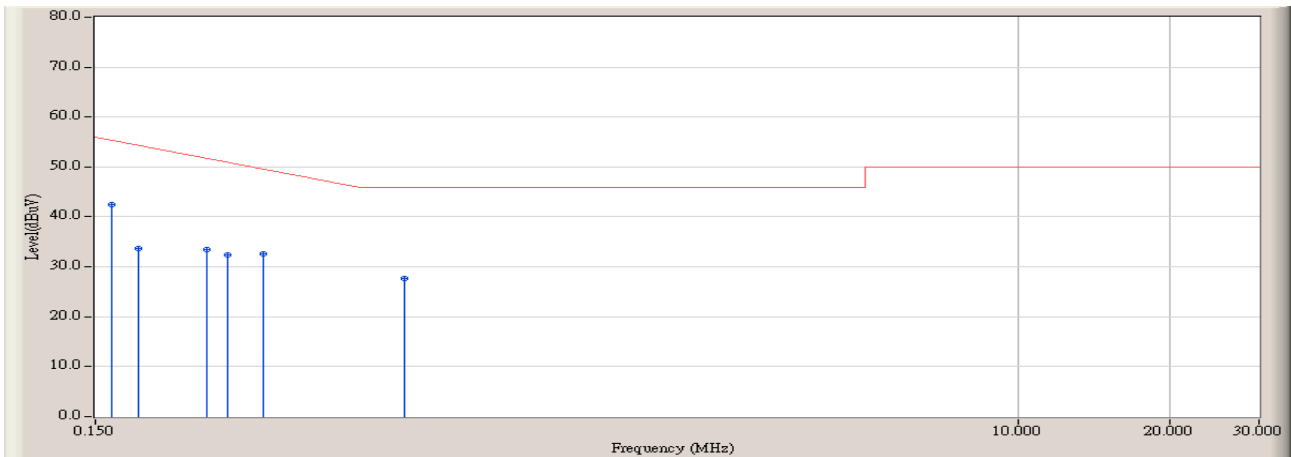


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	9.641	37.700	47.341	-18.316	65.657	QUASIPeAK
2		0.182	9.515	32.900	42.415	-22.671	65.086	QUASIPeAK
3		0.250	9.465	30.300	39.765	-23.378	63.143	QUASIPeAK
4		0.274	9.495	29.800	39.295	-23.162	62.457	QUASIPeAK
5		0.322	9.543	28.800	38.343	-22.743	61.086	QUASIPeAK
6		0.614	9.668	22.600	32.268	-23.732	56.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Johnwang	
Site : SR-1 (Conducted Emission)	Time : 2007/07/14 - 10:34
Limit : FCC_Part15_B_00M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : ENV216 - Line2
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2437MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	9.641	32.800	42.441	-13.216	55.657	AVERAGE
2		0.182	9.515	24.200	33.715	-21.371	55.086	AVERAGE
3		0.250	9.465	24.100	33.565	-19.578	53.143	AVERAGE
4		0.274	9.495	22.900	32.395	-20.062	52.457	AVERAGE
5		0.322	9.543	23.000	32.543	-18.543	51.086	AVERAGE
6		0.614	9.668	17.900	27.568	-18.432	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3.7. Test Photograph

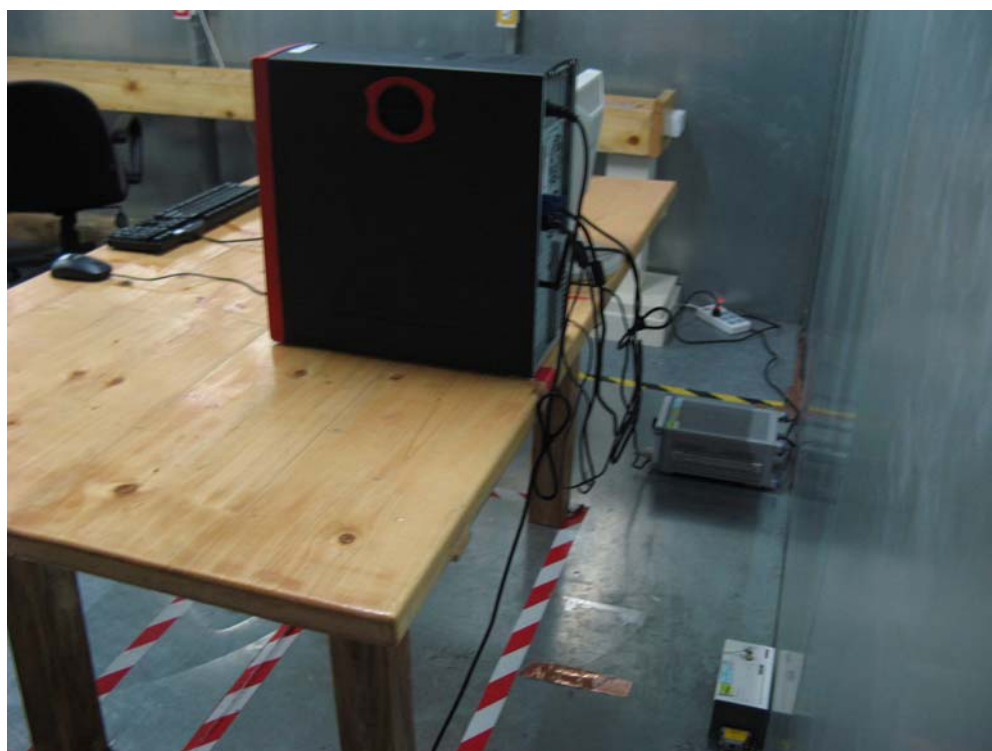
Test Mode: Mode 1: Transmit by 802.11b

Description: Front View of Conduction Test



Test Mode: Mode 1: Transmit by 802.11b

Description: Back View of Conduction Test



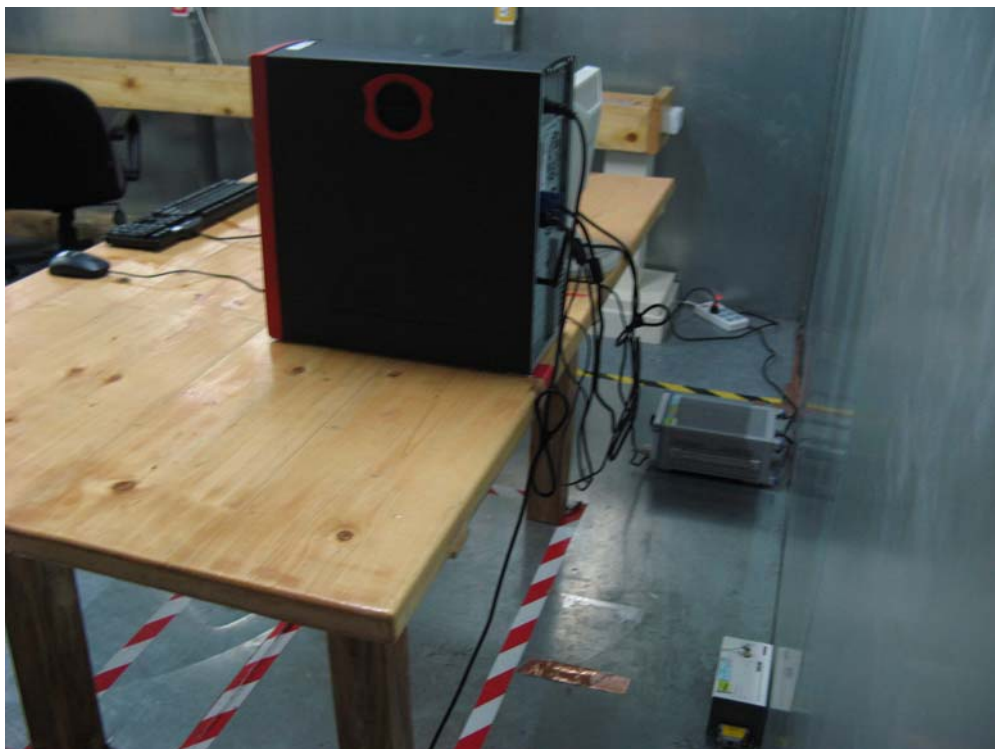
Test Mode: Mode 2: Transmit by 802.11g

Description: Front View of Conduction Test



Test Mode: Mode 2: Transmit by 802.11g

Description: Back View of Conduction Test



4. Radiated Emission

4.1. Test Equipment

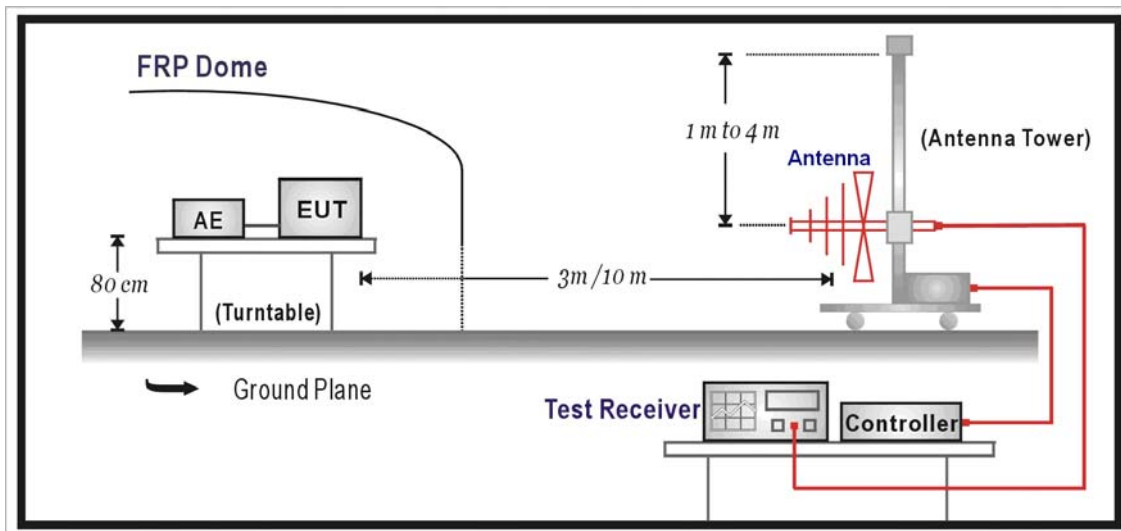
Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2006/11/20
EMI Test Receiver	R&S	ESCI	100573	2007/05/23
Preamplifier	Quietek	AP-025C	QT-AP003	2006/11/25
Preamplifier	Quietek	AP-180C	CHM-0602013	2006/11/25
Bilog Type Antenna	Schaffner	CBL6112B	2932	2006/11/22
*Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2005/11/25
50ohm Coaxial Switch	ANRITSU	MP59B	6200447304	2006/11/25
Coaxial Cable	Huber+Suhner	AC2-C	04	2006/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2007/03/30

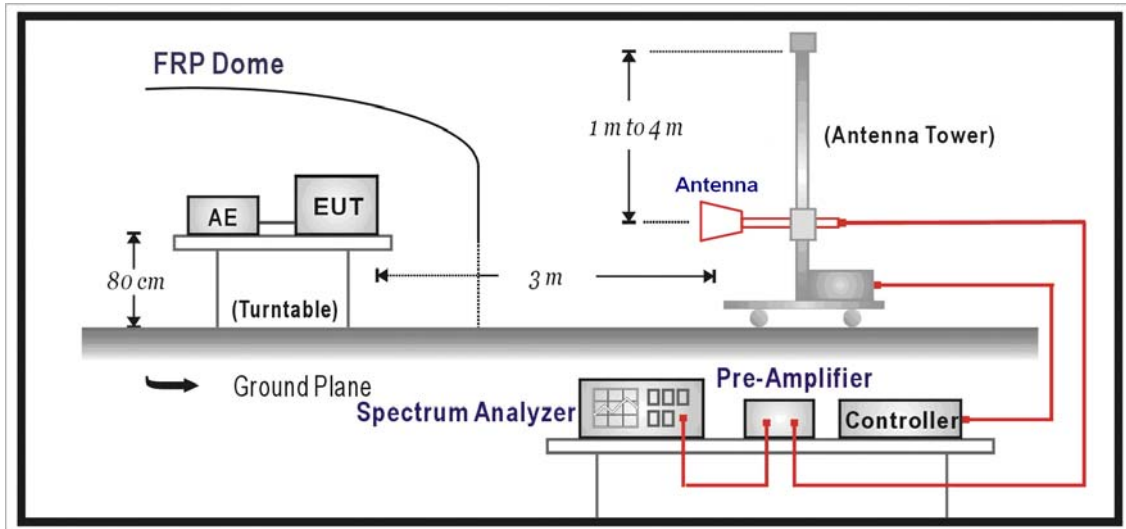
Note: "*" means the test device calibration period for two years.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

FCC Part 15 Subpart C Paragraph 15.209 Limits (dBuV/m)		
Frequency (MHz)	Distance (m)	dBuV/m
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. $RF\ Voltage\ (dBuV/m) = 20\ \log\ RF\ Voltage\ (\mu V/m)$

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCI) is 120 kHz and above 1GHz is 1MHz.

The frequency range from 30MHz to 10th harmonic is checked.

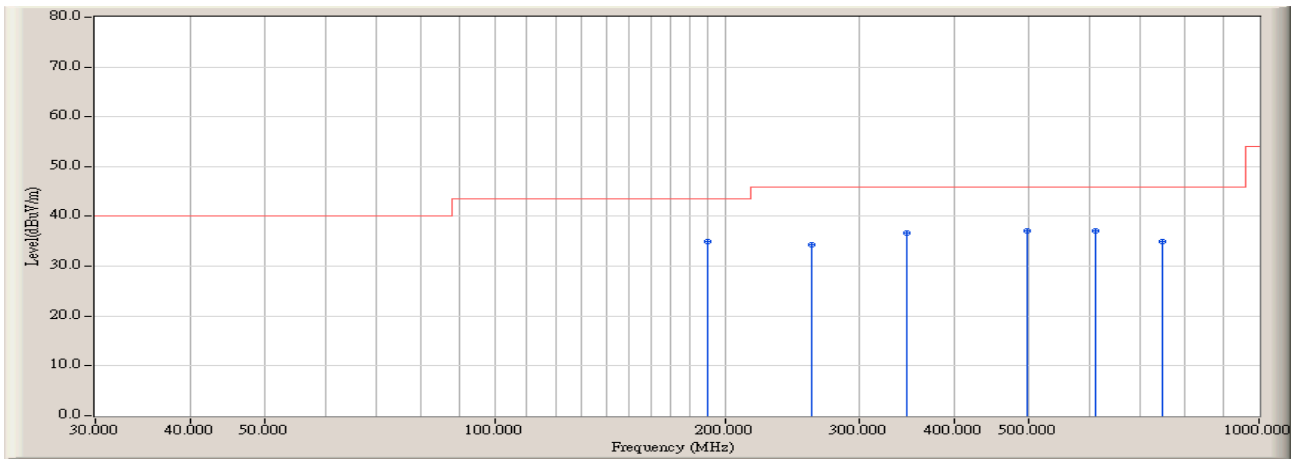
4.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB

under 1G is defined as ± 3.8 dB

4.6. Test Result

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/23 - 15:51
Limit : FCC_CLASS_C_03M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : CBL6141A_4278(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2412MHz)

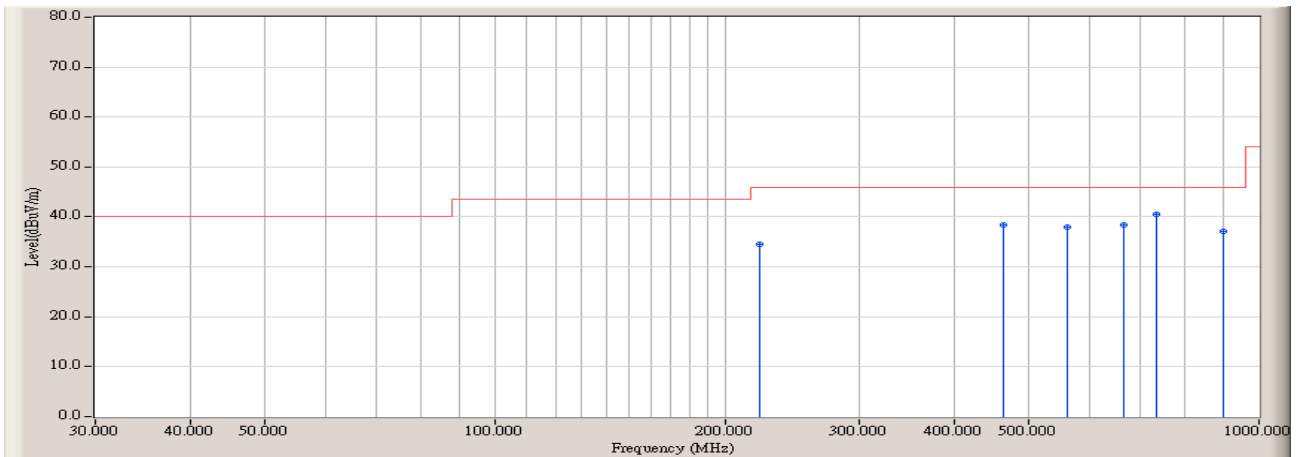


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	190.050	-13.708	48.618	34.910	-8.590	43.500	QUASPEAK
2		259.567	-10.868	45.101	34.232	-11.768	46.000	QUASPEAK
3		345.250	-8.449	45.071	36.622	-9.378	46.000	QUASPEAK
4		497.217	-5.541	42.584	37.042	-8.958	46.000	QUASPEAK
5		612.000	-3.463	40.564	37.101	-8.899	46.000	QUASPEAK
6		746.183	-0.556	35.610	35.054	-10.946	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/23 - 15:53
Limit : FCC_CLASS_C_03M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : CBL6141A_4278(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2412MHz)

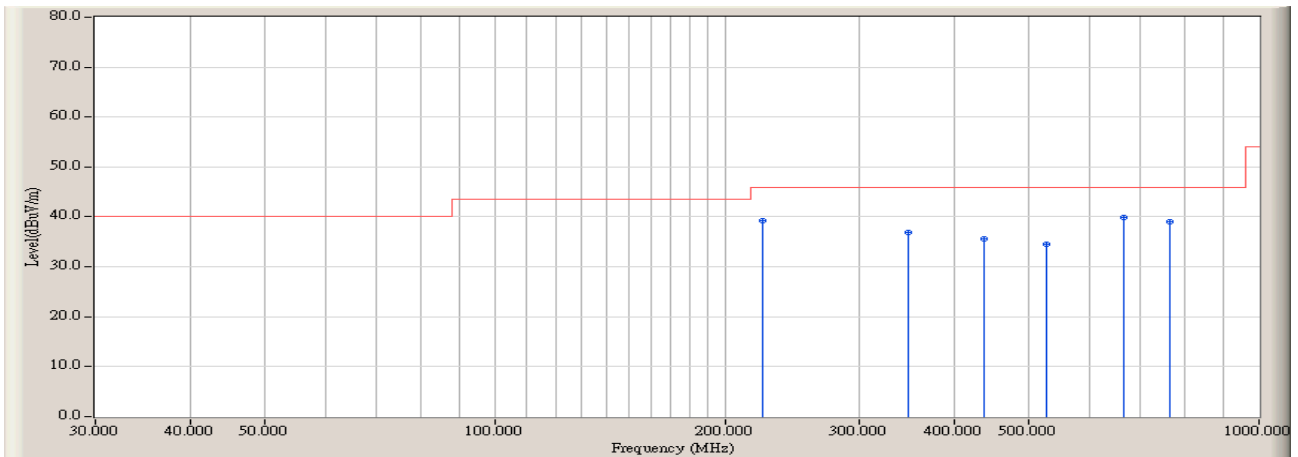


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		222.383	-11.042	45.676	34.634	-11.366	46.000	QUASPEAK
2		463.267	-6.417	44.889	38.473	-7.527	46.000	QUASPEAK
3		560.267	-3.539	41.561	38.023	-7.977	46.000	QUASPEAK
4		665.350	-2.085	40.493	38.408	-7.592	46.000	QUASPEAK
5	*	733.250	-0.781	41.325	40.544	-5.456	46.000	QUASPEAK
6		899.767	0.213	36.837	37.051	-8.949	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/23 - 15:56
Limit : FCC_CLASS_C_03M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : CBL6141A_4278(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2437MHz)

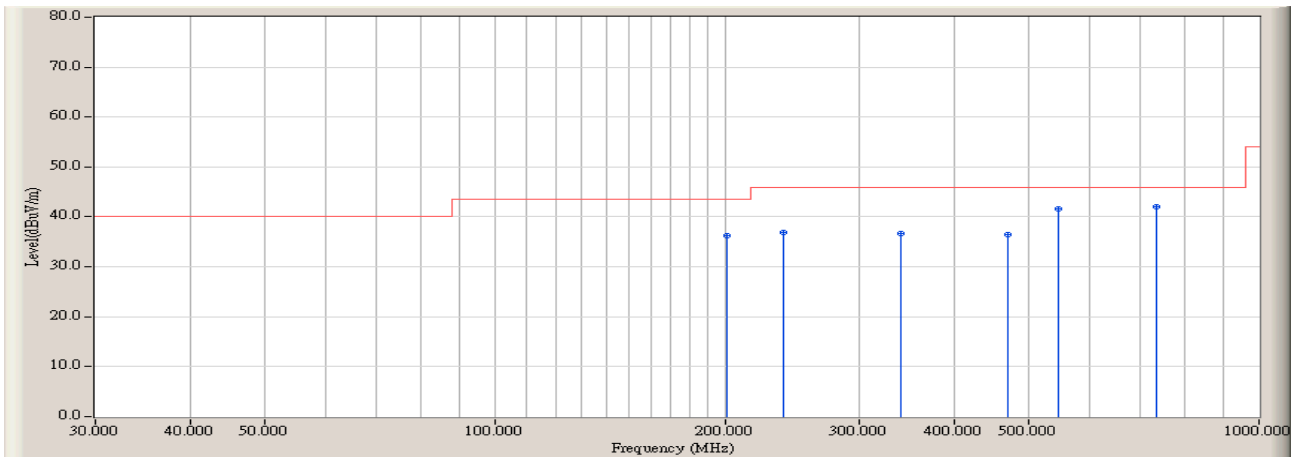


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		224.000	-10.928	50.162	39.234	-6.766	46.000	QUASPEAK
2		346.867	-8.401	45.272	36.871	-9.129	46.000	QUASPEAK
3		435.783	-6.900	42.576	35.676	-10.324	46.000	QUASPEAK
4		527.933	-5.337	39.904	34.567	-11.433	46.000	QUASPEAK
5	*	665.350	-2.085	41.946	39.861	-6.139	46.000	QUASPEAK
6		763.967	-0.344	39.334	38.989	-7.011	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/23 - 15:57
Limit : FCC_CLASS_C_03M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : CBL6141A_4278(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2437MHz)

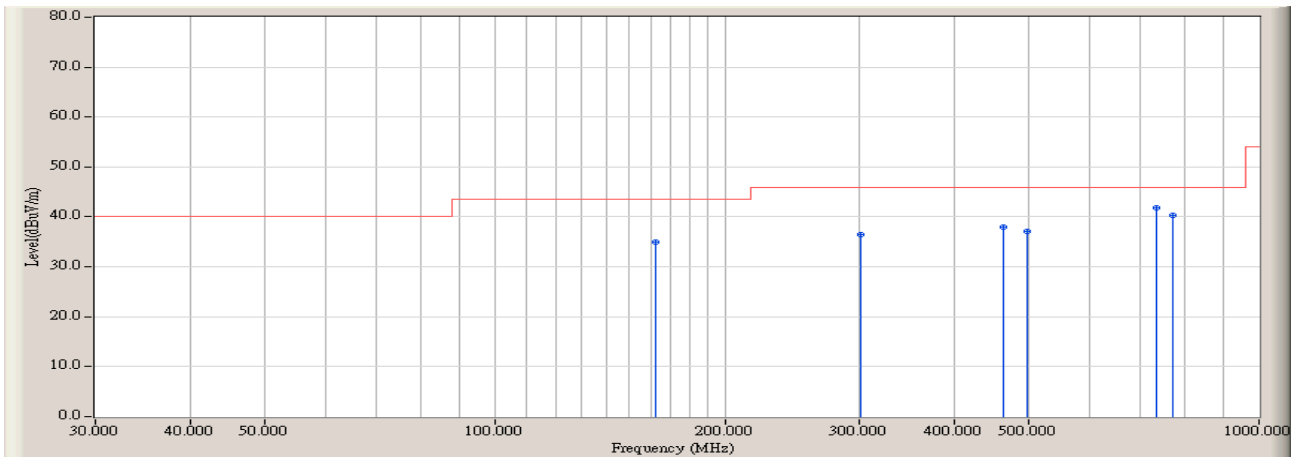


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		201.367	-13.161	49.454	36.293	-7.207	43.500	QUASIPeAK
2		238.550	-11.687	48.641	36.954	-9.046	46.000	QUASIPeAK
3		340.400	-8.567	45.330	36.763	-9.237	46.000	QUASIPeAK
4		468.117	-6.233	42.782	36.548	-9.452	46.000	QUASIPeAK
5		547.333	-4.600	46.311	41.711	-4.289	46.000	QUASIPeAK
6	*	734.867	-0.753	42.793	42.040	-3.960	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/23 - 16:00
Limit : FCC_CLASS_C_03M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : CBL6141A_4278(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2462MHz)

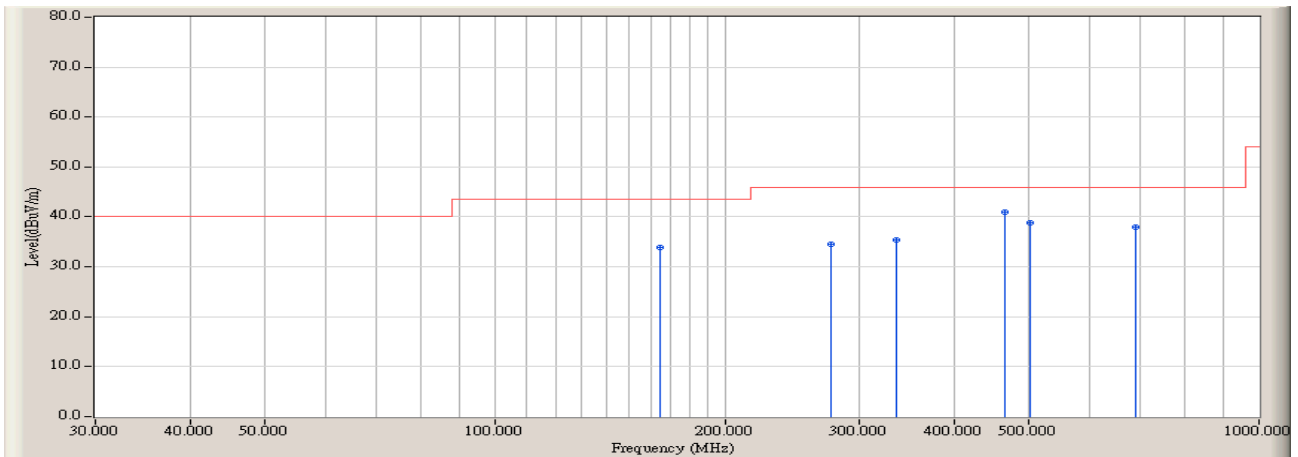


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		162.567	-12.487	47.359	34.873	-8.627	43.500	QUASIPeAK
2		301.600	-9.974	46.404	36.430	-9.570	46.000	QUASIPeAK
3		463.267	-6.417	44.363	37.947	-8.053	46.000	QUASIPeAK
4		497.217	-5.541	42.584	37.042	-8.958	46.000	QUASIPeAK
5	*	733.250	-0.781	42.508	41.727	-4.273	46.000	QUASIPeAK
6		770.433	-0.403	40.731	40.328	-5.672	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/23 - 16:04
Limit : FCC_CLASS_C_03M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : CBL6141A_4278(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2462MHz)

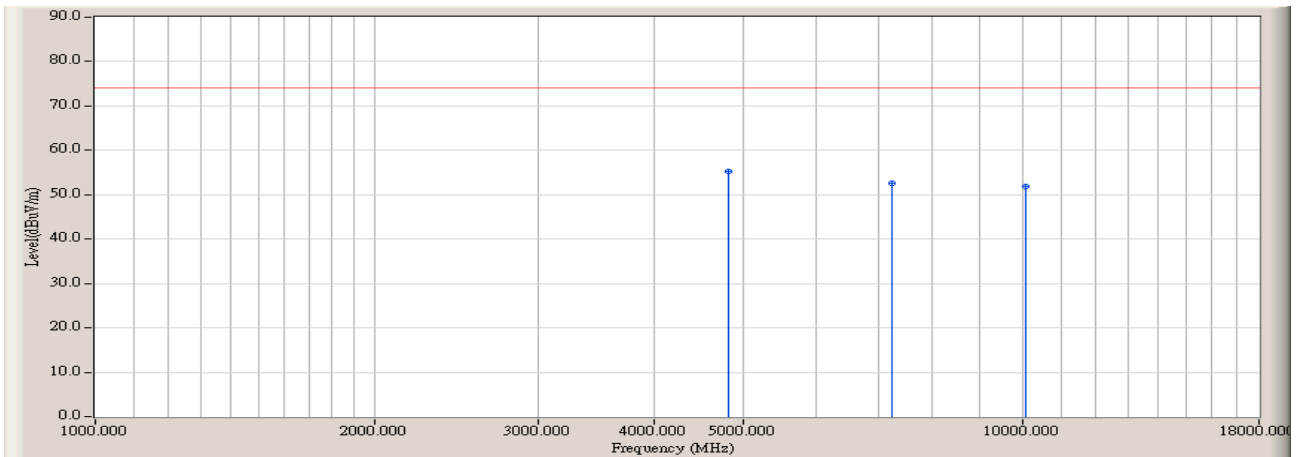


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		164.183	-12.616	46.494	33.878	-9.622	43.500	QUASPEAK
2		275.733	-10.854	45.404	34.550	-11.450	46.000	QUASPEAK
3		335.550	-8.735	44.022	35.287	-10.713	46.000	QUASPEAK
4	*	464.883	-6.370	47.233	40.863	-5.137	46.000	QUASPEAK
5		502.067	-5.448	44.198	38.750	-7.250	46.000	QUASPEAK
6		689.600	-1.864	39.726	37.862	-8.138	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:12
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2412MHz)

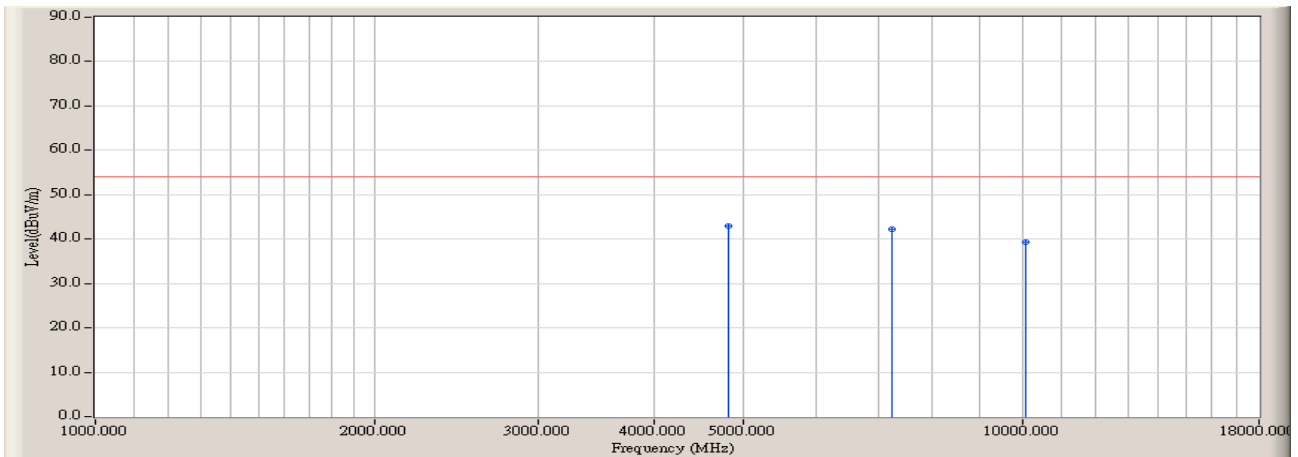


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4825.000	4.900	50.383	55.283	-18.687	73.970	PEAK
2		7233.333	15.403	37.265	52.668	-21.302	73.970	PEAK
3		10066.667	18.270	33.505	51.775	-22.195	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:12
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2412MHz)

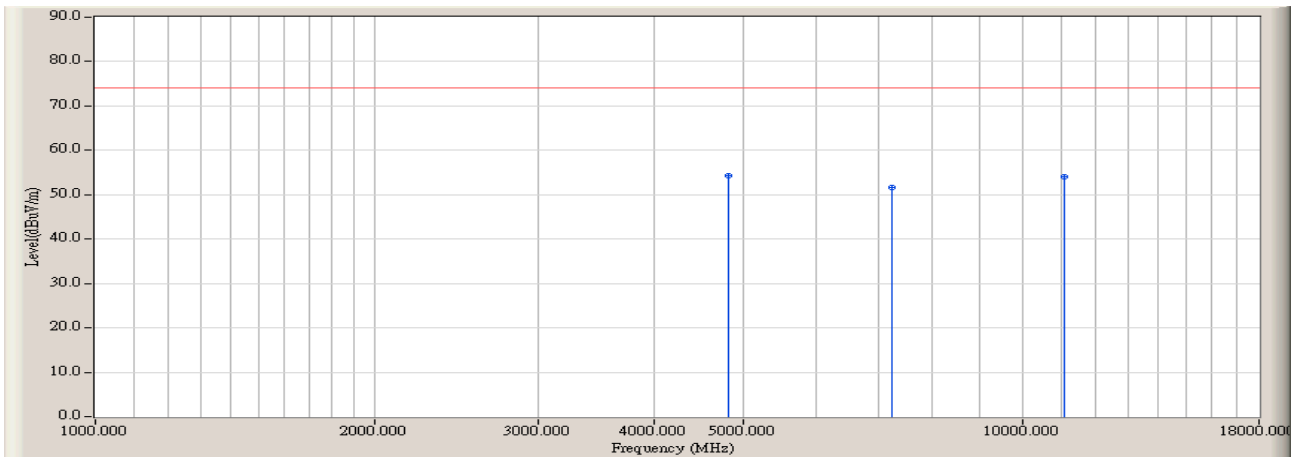


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4825.000	4.900	38.080	42.980	-10.990	53.970	AVERAGE
2		7233.333	15.403	26.730	42.133	-11.837	53.970	AVERAGE
3		10066.667	18.270	21.080	39.350	-14.620	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:15
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2412MHz)

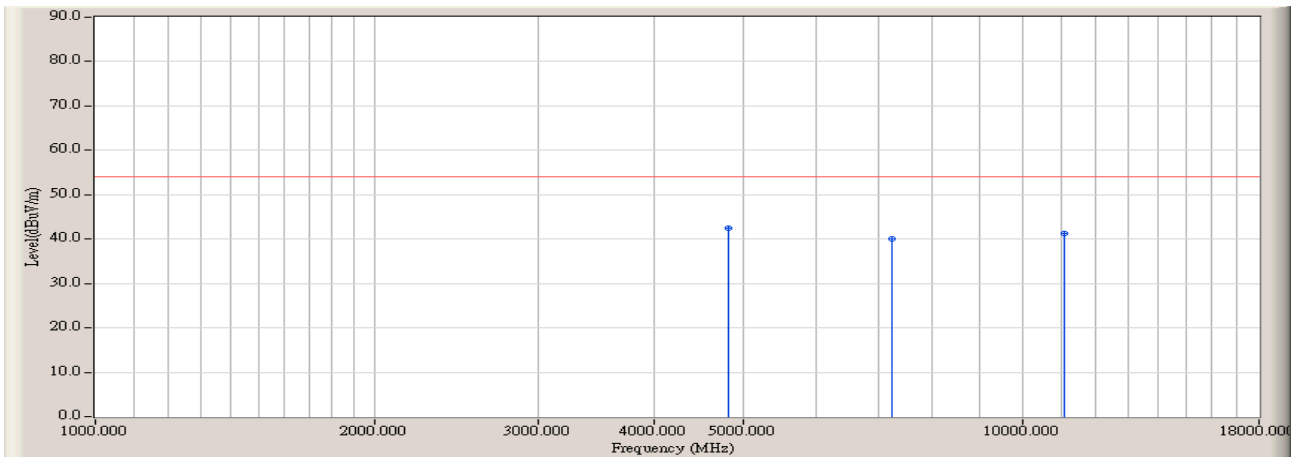


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4825.000	4.900	49.344	54.244	-19.726	73.970	PEAK
2		7233.333	15.403	36.125	51.528	-22.442	73.970	PEAK
3		11115.000	20.080	33.939	54.019	-19.951	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:15
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2412MHz)

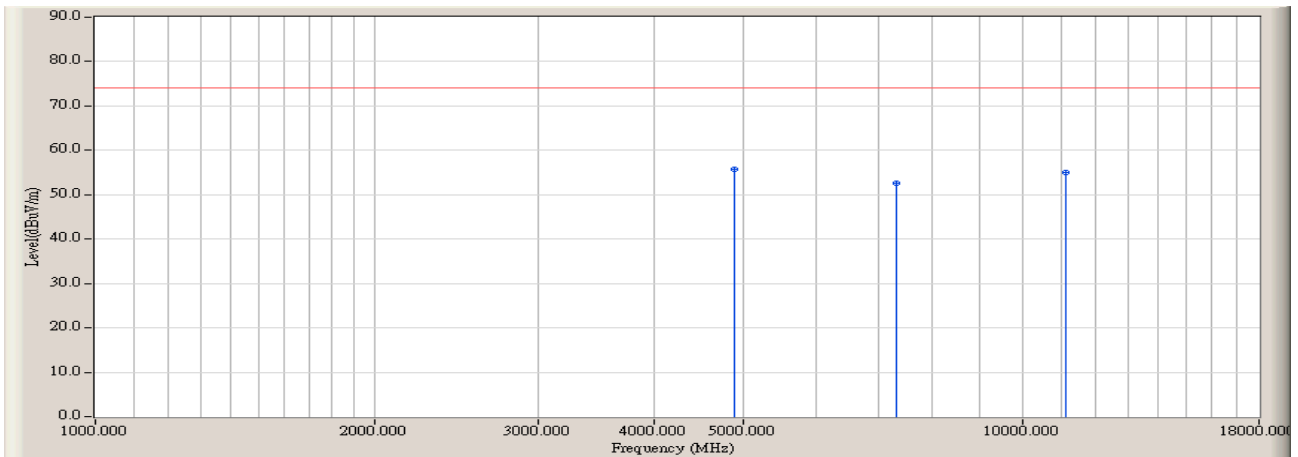


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4825.000	4.900	37.470	42.370	-11.600	53.970	AVERAGE
2		7233.333	15.403	24.550	39.953	-14.017	53.970	AVERAGE
3		11115.000	20.080	21.080	41.160	-12.810	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:18
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2437MHz)

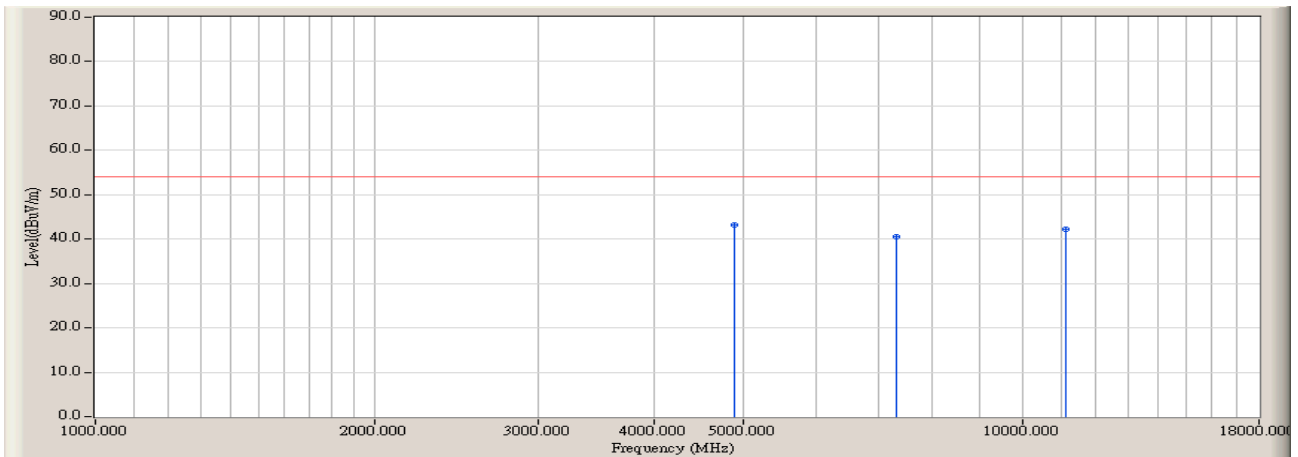


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4881.667	5.034	50.675	55.708	-18.262	73.970	PEAK
2		7318.333	15.313	37.307	52.620	-21.350	73.970	PEAK
3		11143.333	20.044	34.997	55.040	-18.930	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:18
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2437MHz)

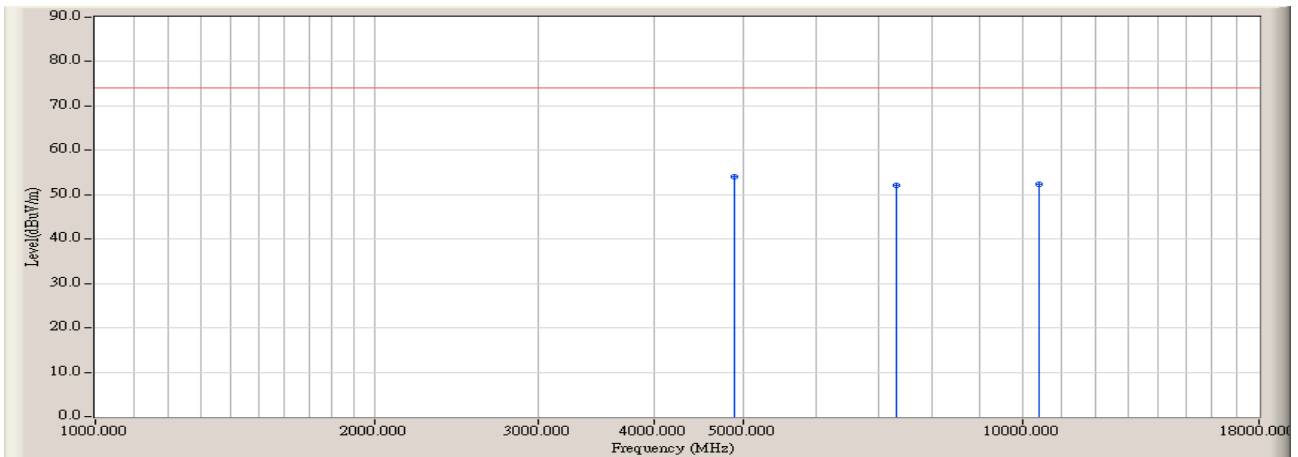


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4881.667	5.034	38.250	43.283	-10.687	53.970	AVERAGE
2		7318.333	15.313	25.170	40.483	-13.487	53.970	AVERAGE
3		11143.333	20.044	22.090	42.133	-11.837	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:21
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2437MHz)

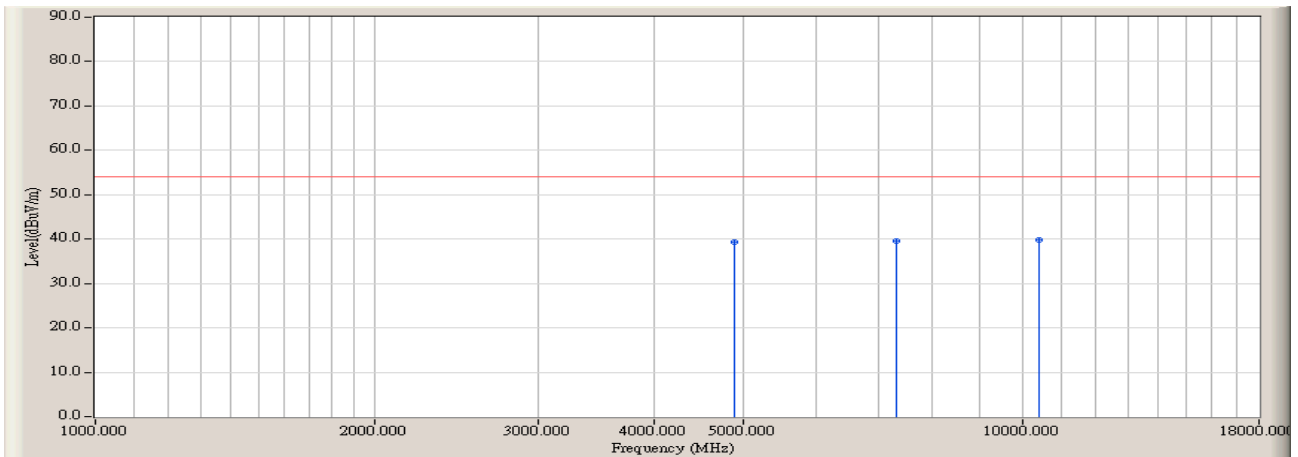


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4881.667	5.034	48.915	53.948	-20.022	73.970	PEAK
2		7318.333	15.313	36.873	52.186	-21.784	73.970	PEAK
3		10435.000	18.890	33.431	52.321	-21.649	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:21
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2437MHz)

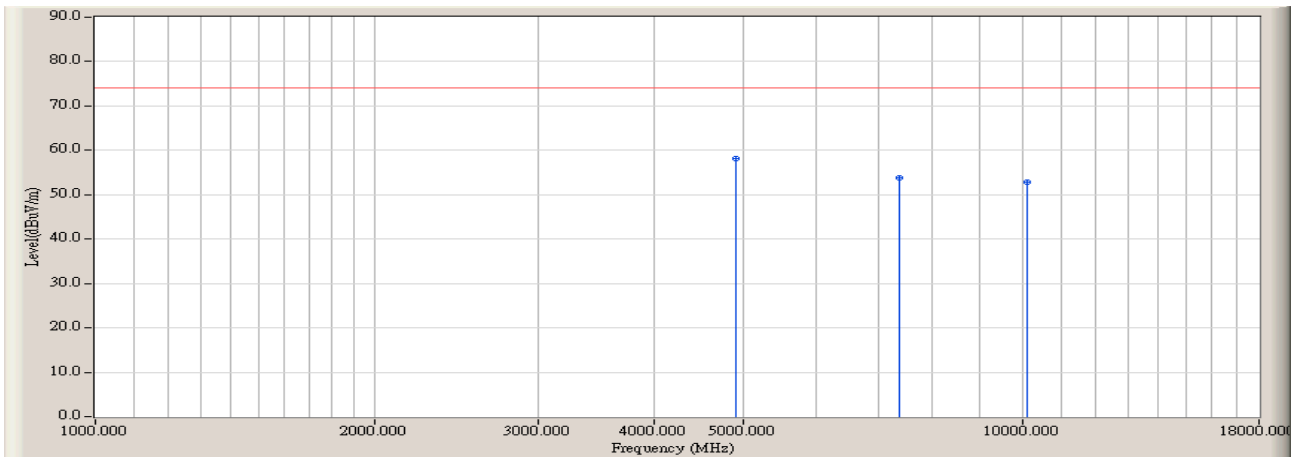


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4881.667	5.034	34.210	39.243	-14.727	53.970	AVERAGE
2		7318.333	15.313	24.228	39.541	-14.429	53.970	AVERAGE
3	*	10435.000	18.890	20.890	39.780	-14.190	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:25
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2462MHz)

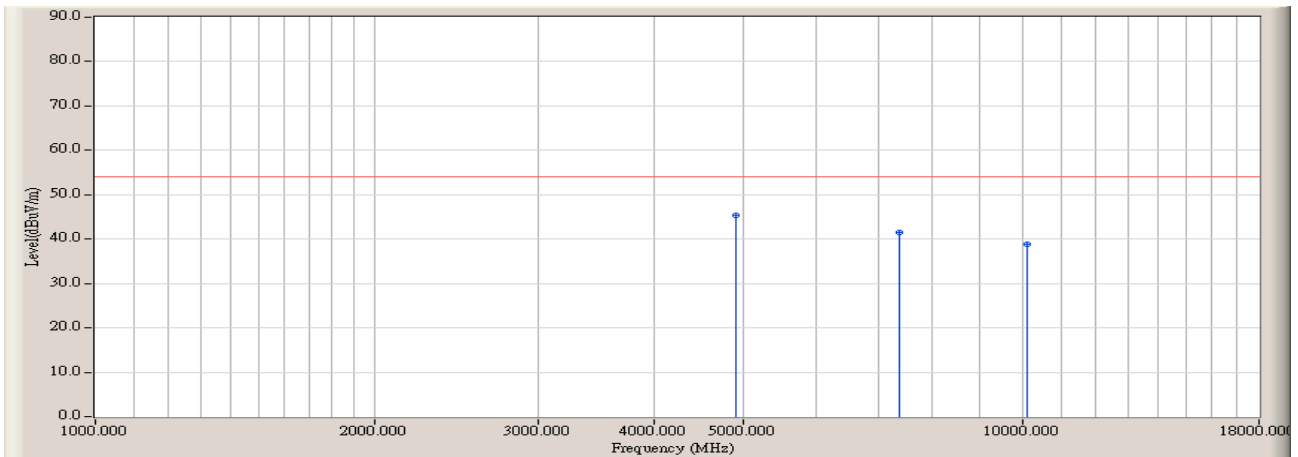


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4910.000	5.100	53.117	58.217	-15.753	73.970	PEAK
2		7375.000	15.250	38.654	53.904	-20.066	73.970	PEAK
3		10123.333	18.363	34.457	52.820	-21.150	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:25
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2462MHz)

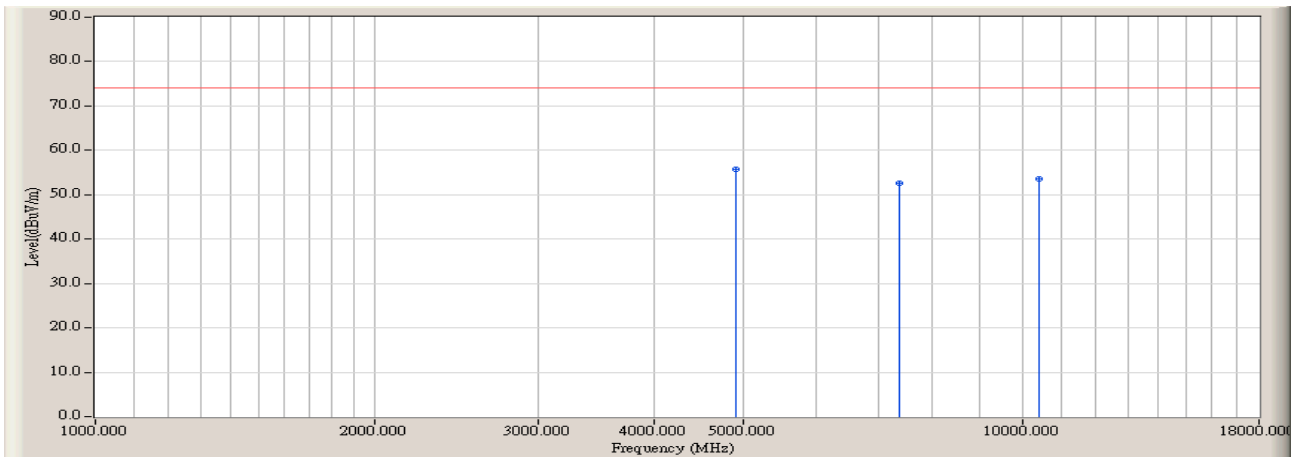


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4910.000	5.100	40.210	45.310	-8.660	53.970	AVERAGE
2		7375.000	15.250	26.170	41.420	-12.550	53.970	AVERAGE
3		10123.333	18.363	20.490	38.853	-15.117	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2462MHz)

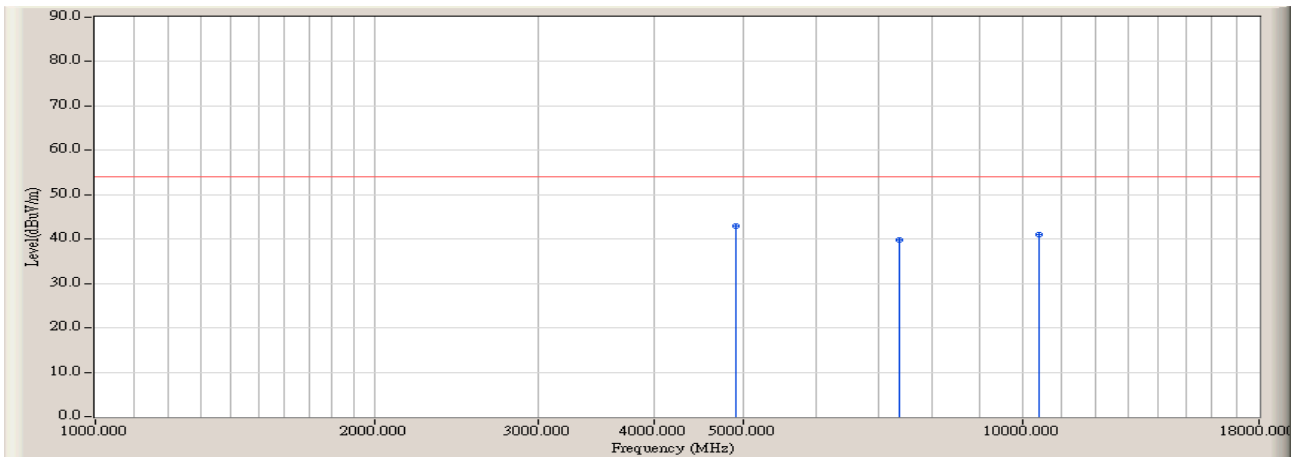


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4910.000	5.100	50.575	55.675	-18.295	73.970	PEAK
2		7375.000	15.250	37.298	52.548	-21.422	73.970	PEAK
3		10435.000	18.890	34.795	53.685	-20.285	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b(2462MHz)

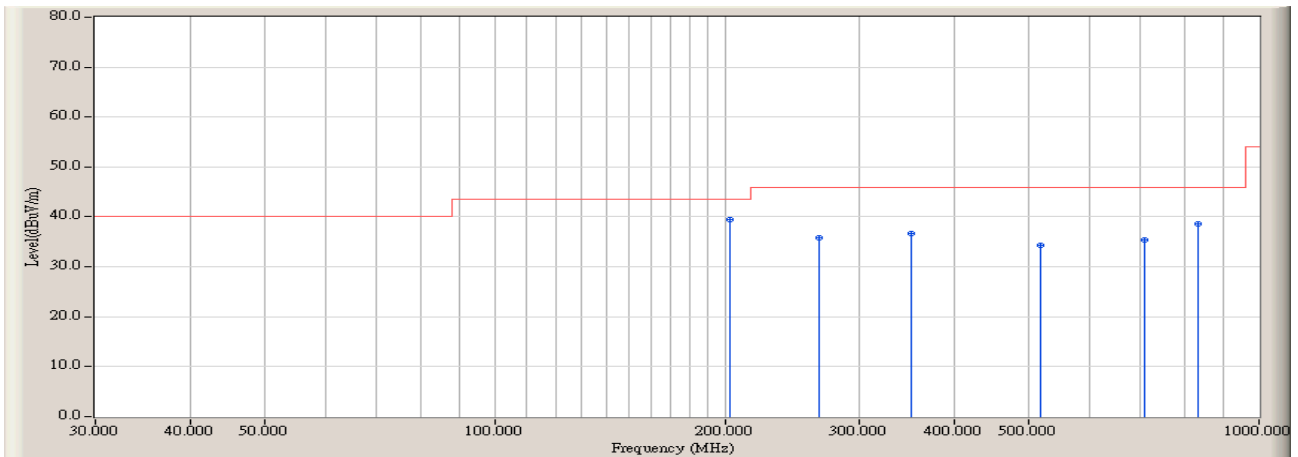


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4910.000	5.100	37.960	43.060	-10.910	53.970	AVERAGE
2		7375.000	15.250	24.670	39.920	-14.050	53.970	AVERAGE
3		10435.000	18.890	22.060	40.950	-13.020	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/23 - 16:15
Limit : FCC_CLASS_C_03M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : CBL6141A_4278(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2412MHz)

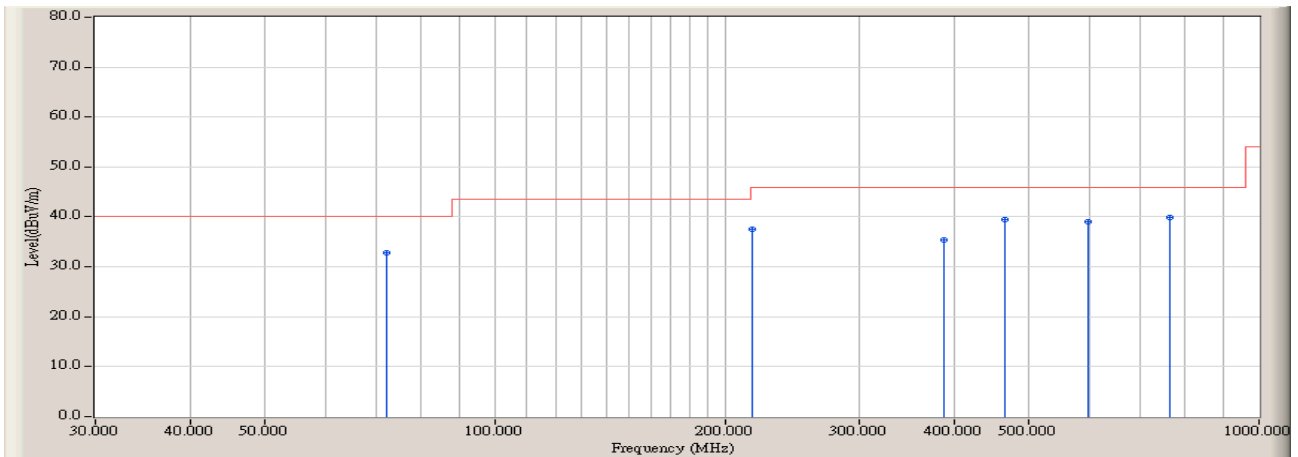


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	202.983	-13.058	52.615	39.557	-3.943	43.500	QUASPEAK
2		266.033	-10.802	46.586	35.784	-10.216	46.000	QUASPEAK
3		350.100	-8.355	45.108	36.753	-9.247	46.000	QUASPEAK
4		516.617	-5.426	39.795	34.368	-11.632	46.000	QUASPEAK
5		707.383	-1.513	36.892	35.379	-10.621	46.000	QUASPEAK
6		831.867	-0.097	38.676	38.579	-7.421	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/23 - 16:20
Limit : FCC_CLASS_C_03M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : CBL6141A_4278(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2412MHz)

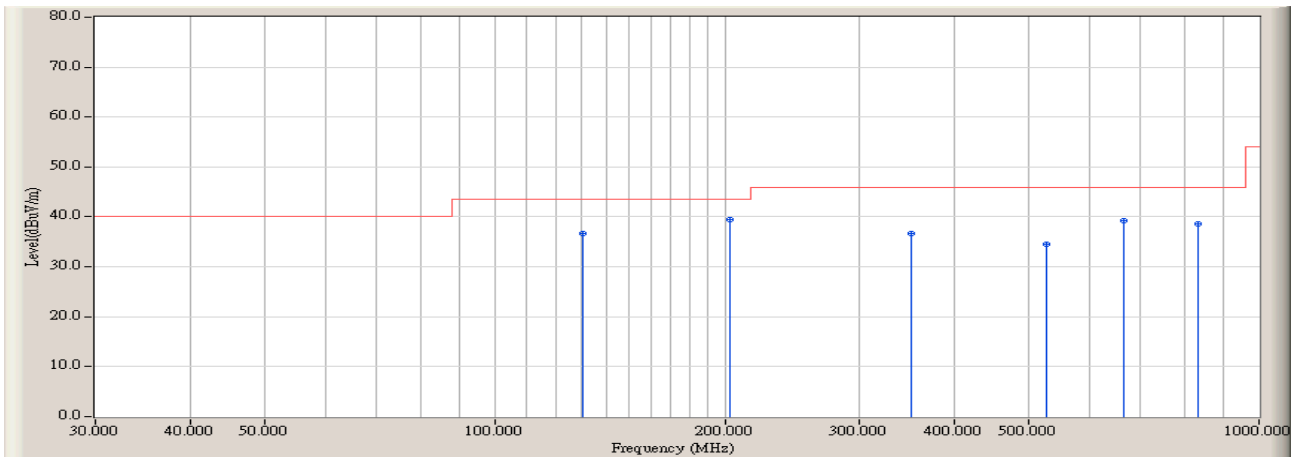


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		72.033	-17.063	49.824	32.761	-7.239	40.000	QUASIPeAK
2		217.533	-11.587	49.227	37.640	-8.360	46.000	QUASIPeAK
3		387.283	-7.538	42.926	35.388	-10.612	46.000	QUASIPeAK
4		464.883	-6.370	45.933	39.563	-6.437	46.000	QUASIPeAK
5		597.450	-3.732	42.838	39.106	-6.894	46.000	QUASIPeAK
6	*	765.583	-0.357	40.182	39.825	-6.175	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/23 - 16:21
Limit : FCC_CLASS_C_03M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : CBL6141A_4278(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2437MHz)

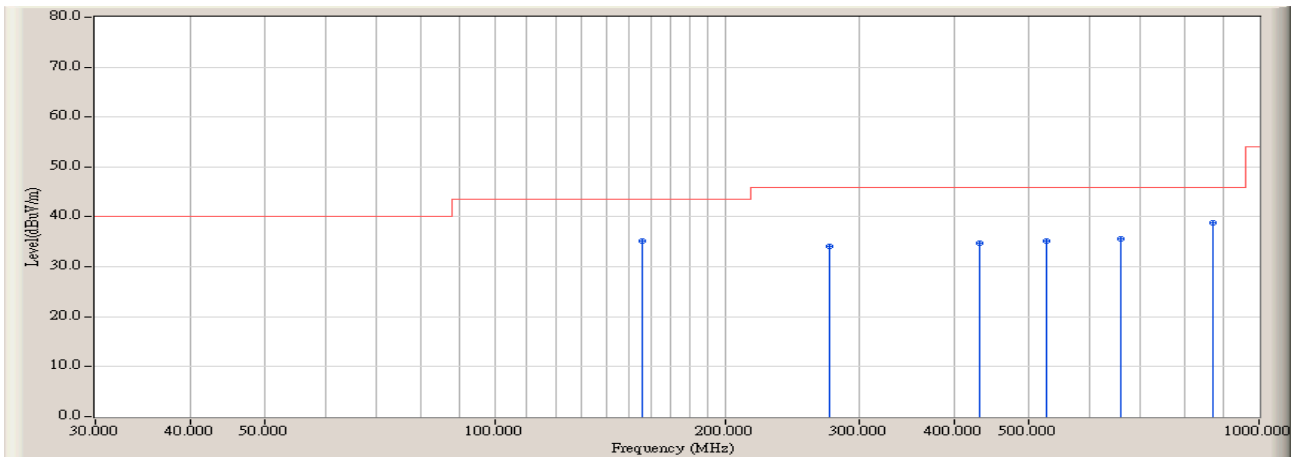


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		130.233	-11.920	48.641	36.720	-6.780	43.500	QUASIPeAK
2	*	202.983	-13.058	52.615	39.557	-3.943	43.500	QUASIPeAK
3		350.100	-8.355	45.108	36.753	-9.247	46.000	QUASIPeAK
4		527.933	-5.337	39.957	34.620	-11.380	46.000	QUASIPeAK
5		665.350	-2.085	41.374	39.289	-6.711	46.000	QUASIPeAK
6		831.867	-0.097	38.676	38.579	-7.421	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/23 - 16:21
Limit : FCC_CLASS_C_03M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : CBL6141A_4278(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2437MHz)

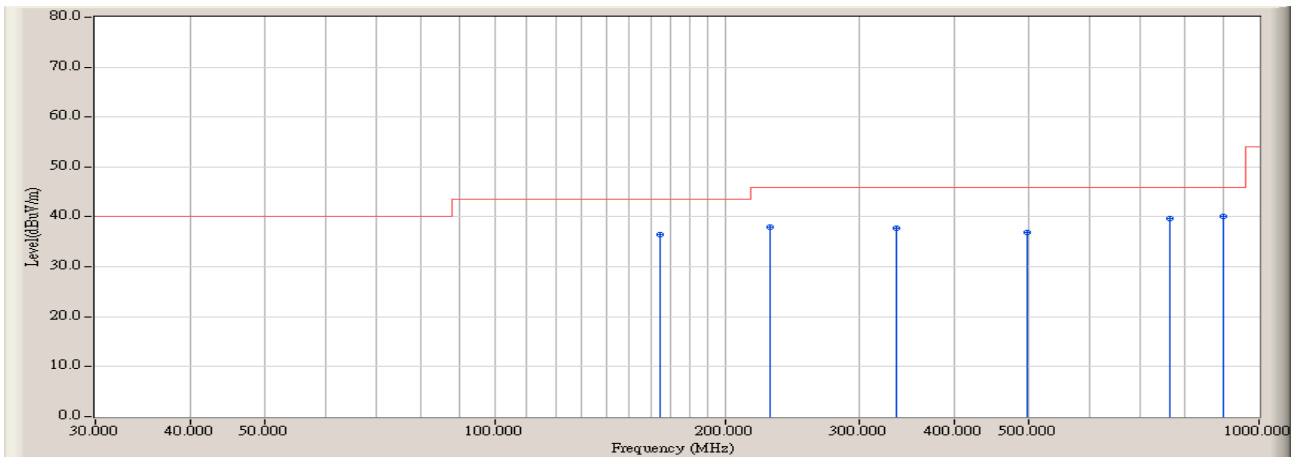


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		156.100	-12.091	47.192	35.101	-8.399	43.500	QUASPEAK
2		274.117	-10.827	45.014	34.187	-11.813	46.000	QUASPEAK
3		430.933	-6.949	41.743	34.795	-11.205	46.000	QUASPEAK
4		527.933	-5.337	40.434	35.097	-10.903	46.000	QUASPEAK
5		658.883	-2.185	37.822	35.638	-10.362	46.000	QUASPEAK
6	*	869.050	0.163	38.701	38.864	-7.136	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/23 - 16:22
Limit : FCC_CLASS_C_03M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : CBL6141A_4278(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2462MHz)

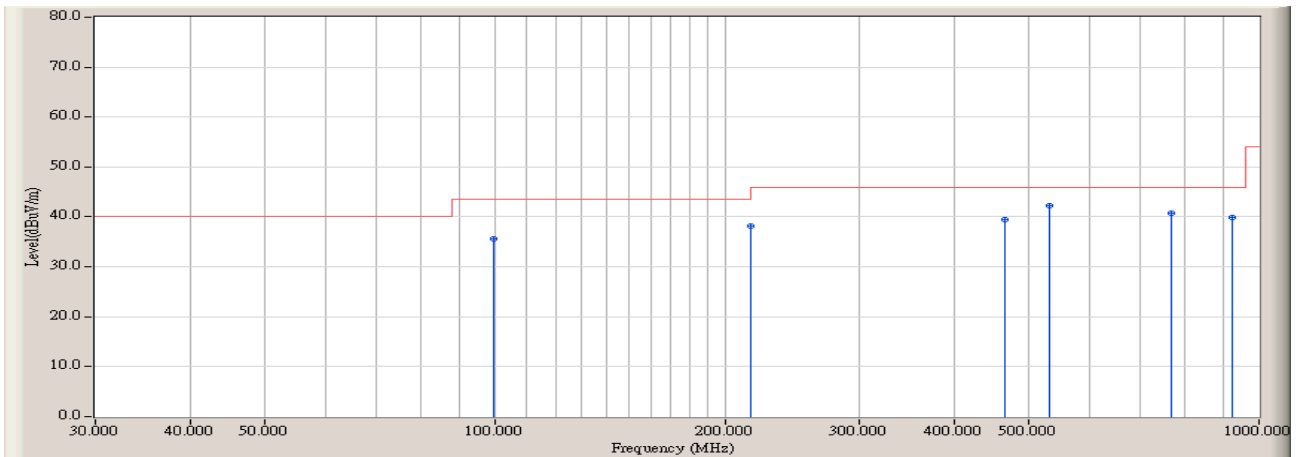


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	164.183	-12.616	49.177	36.561	-6.939	43.500	QUASPEAK
2	228.850	-11.489	49.396	37.907	-8.093	46.000	QUASPEAK
3	335.550	-8.735	46.403	37.668	-8.332	46.000	QUASPEAK
4	497.217	-5.541	42.470	36.928	-9.072	46.000	QUASPEAK
5	765.583	-0.357	40.000	39.643	-6.357	46.000	QUASPEAK
6	* 896.533	0.166	39.985	40.150	-5.850	46.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/23 - 16:23
Limit : FCC_CLASS_C_03M_QP	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : CBL6141A_4278(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2462MHz)

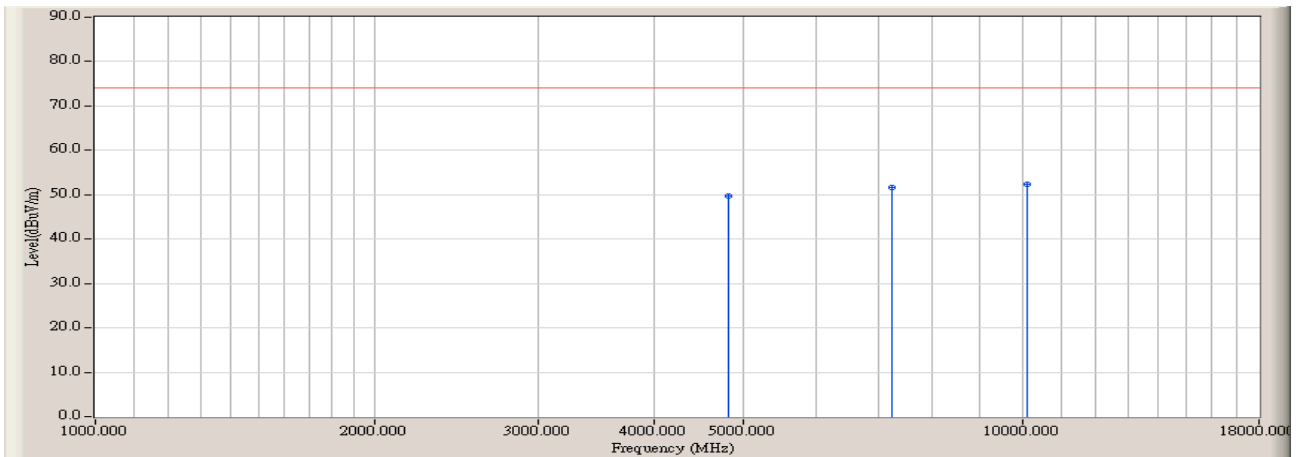


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		99.517	-14.125	49.712	35.586	-7.914	43.500	QUASIPeAK
2		215.917	-11.828	50.001	38.172	-5.328	43.500	QUASIPeAK
3		464.883	-6.370	45.933	39.563	-6.437	46.000	QUASIPeAK
4	*	531.167	-5.328	47.500	42.173	-3.827	46.000	QUASIPeAK
5		767.200	-0.394	41.186	40.792	-5.208	46.000	QUASIPeAK
6		924.017	0.840	39.043	39.883	-6.117	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:43
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2412MHz)

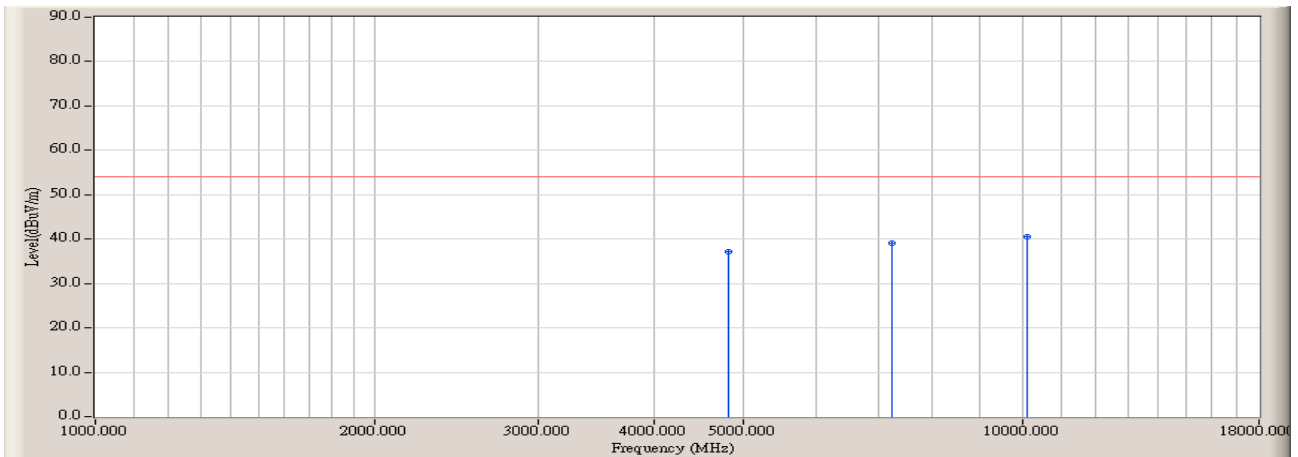


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4825.000	4.900	44.802	49.702	-24.268	73.970	PEAK
2		7233.333	15.403	36.164	51.567	-22.403	73.970	PEAK
3	*	10123.333	18.363	34.009	52.372	-21.598	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:43
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2412MHz)

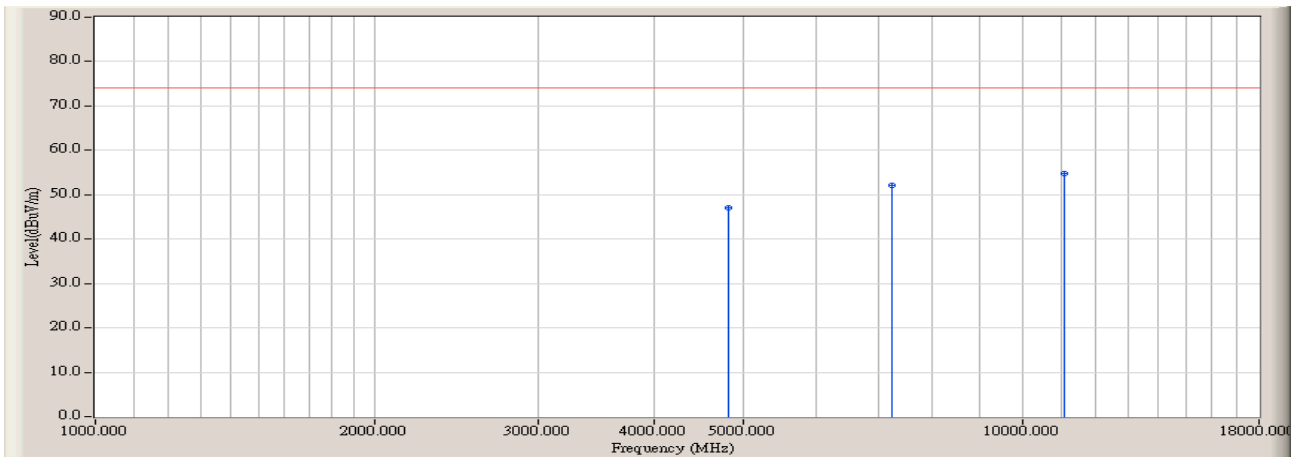


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4825.000	4.900	32.160	37.060	-16.910	53.970	AVERAGE
2		7233.333	15.403	23.650	39.053	-14.917	53.970	AVERAGE
3	*	10123.333	18.363	22.180	40.543	-13.427	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:46
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2412MHz)

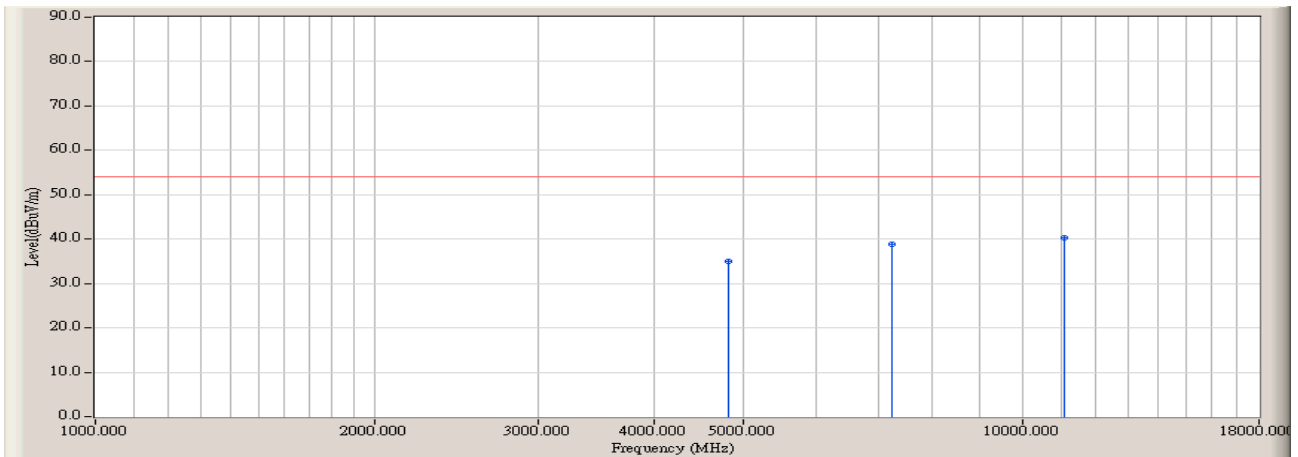


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4825.000	4.900	42.060	46.960	-27.010	73.970	PEAK
2		7233.333	15.403	36.744	52.147	-21.823	73.970	PEAK
3	*	11115.000	20.080	34.752	54.832	-19.138	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:46
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2412MHz)

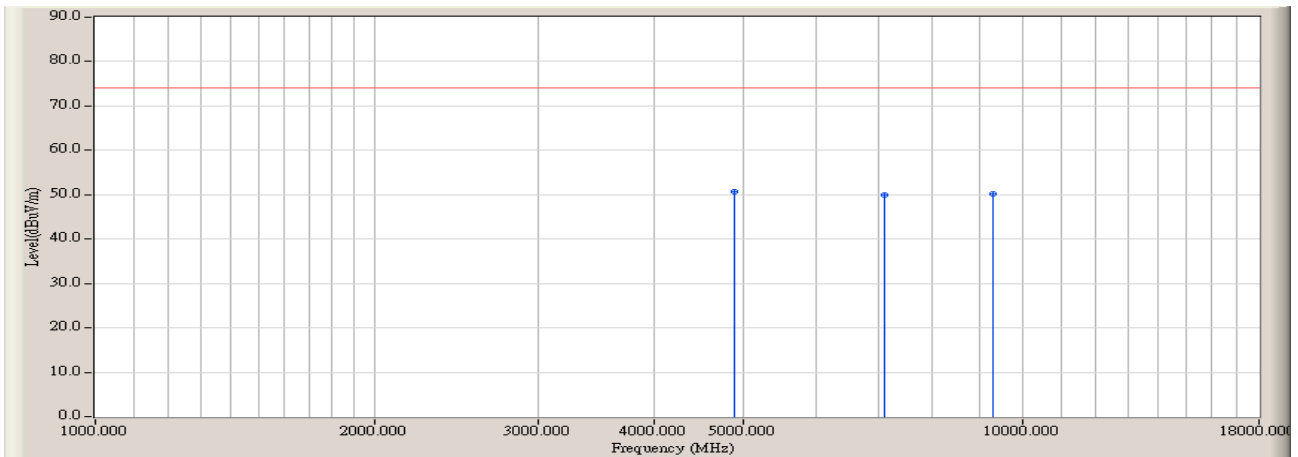


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4825.000	4.900	30.160	35.060	-18.910	53.970	AVERAGE
2		7233.333	15.403	23.560	38.963	-15.007	53.970	AVERAGE
3	*	11115.000	20.080	20.165	40.245	-13.725	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:51
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2437MHz)

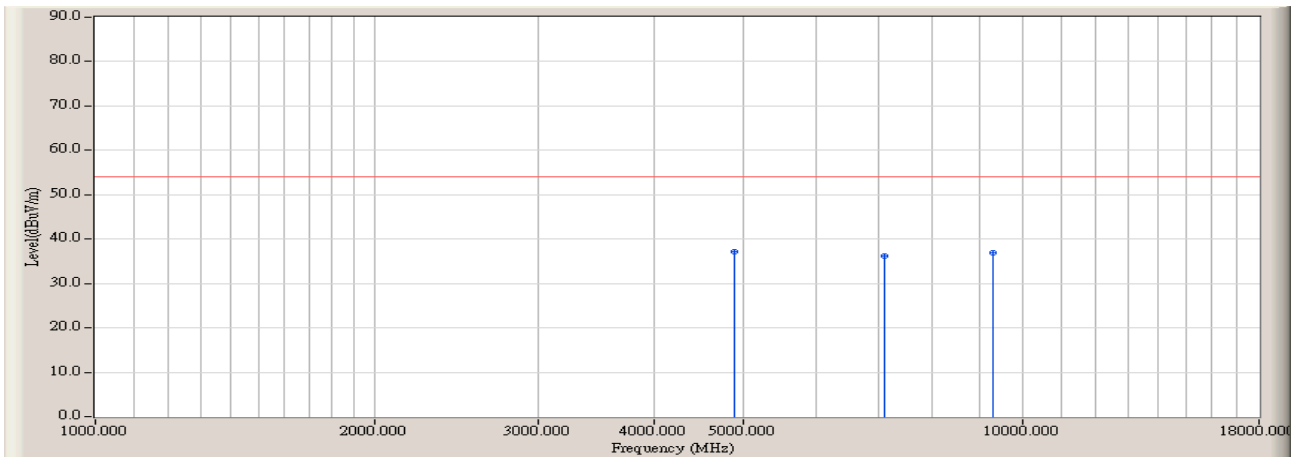


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4881.667	5.034	45.682	50.715	-23.255	73.970	PEAK
2		7091.667	15.014	34.845	49.858	-24.112	73.970	PEAK
3		9301.667	16.513	33.606	50.119	-23.851	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 15:51
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2437MHz)

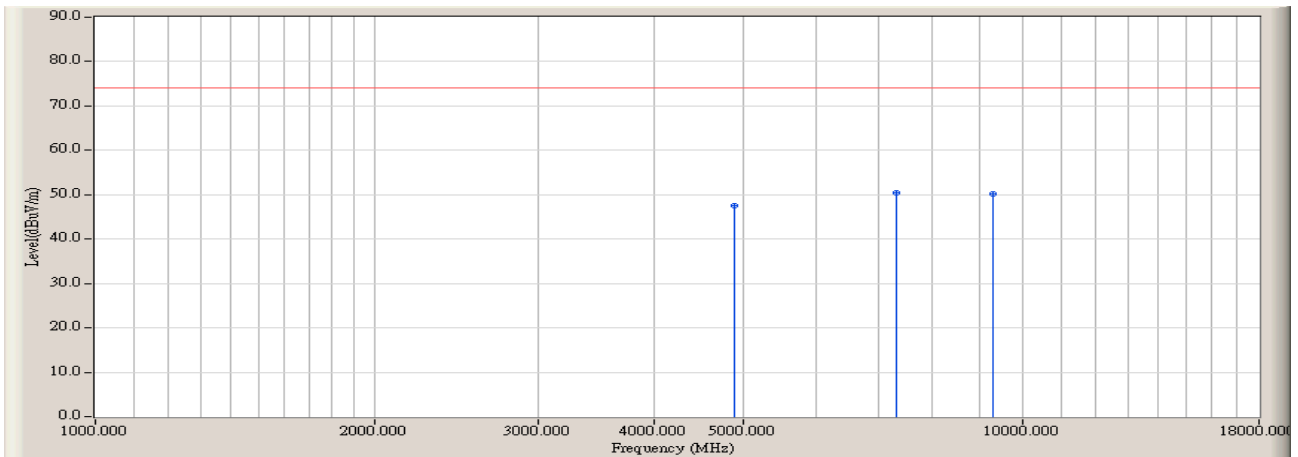


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4881.667	5.034	32.065	37.098	-16.872	53.970	AVERAGE
2		7091.667	15.014	21.065	36.078	-17.892	53.970	AVERAGE
3		9301.667	16.513	20.450	36.963	-17.007	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 16:09
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2437MHz)

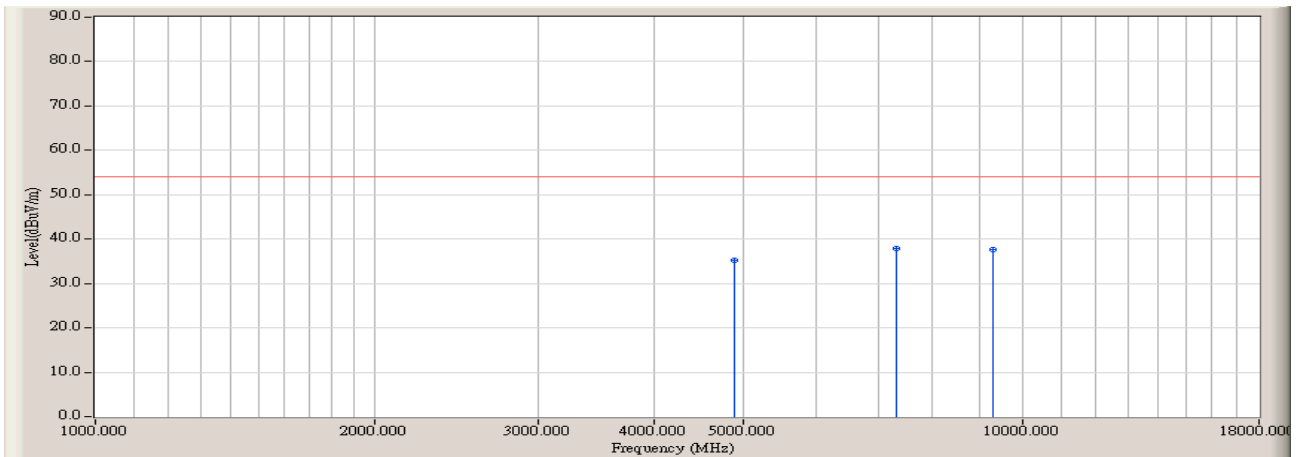


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4881.667	5.034	42.527	47.560	-26.410	73.970	PEAK
2	*	7318.333	15.313	35.016	50.329	-23.641	73.970	PEAK
3		9301.667	16.513	33.781	50.294	-23.676	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 16:09
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2437MHz)

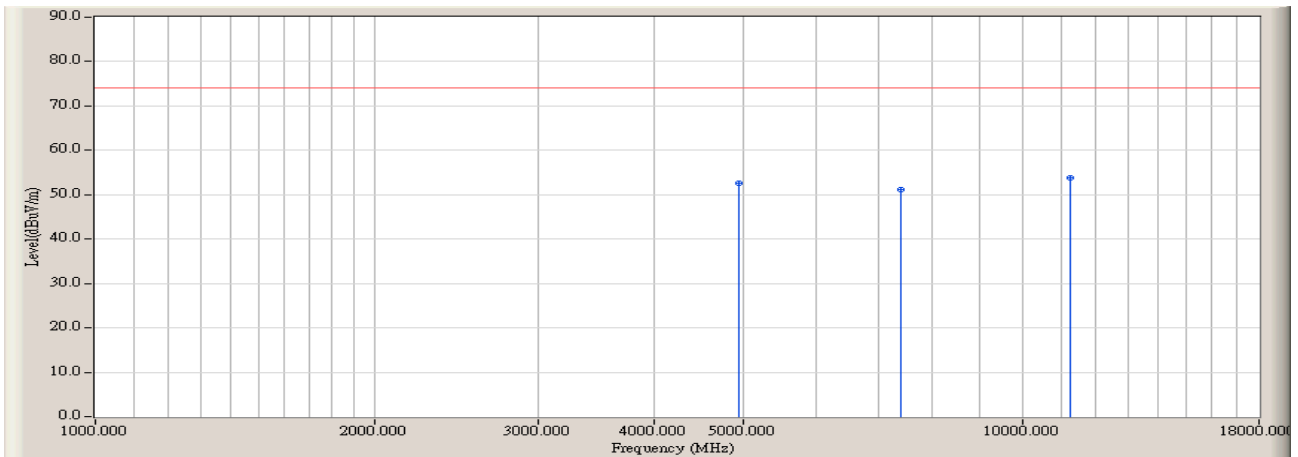


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4881.667	5.034	30.280	35.313	-18.657	53.970	AVERAGE
2	*	7318.333	15.313	22.640	37.953	-16.017	53.970	AVERAGE
3		9301.667	16.513	21.064	37.577	-16.393	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 16:13
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2462MHz)

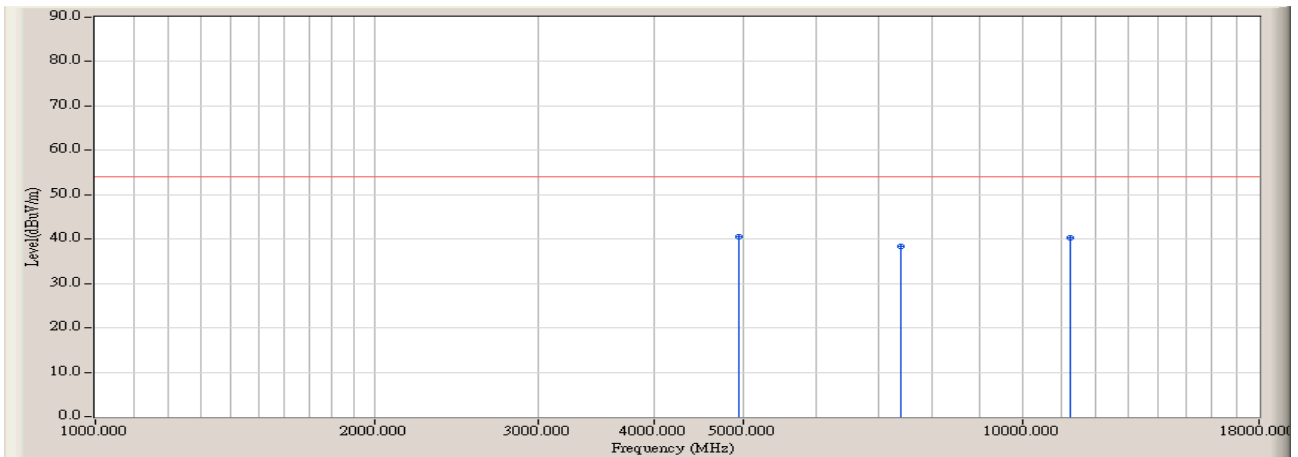


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4938.333	5.169	47.467	52.637	-21.333	73.970	PEAK
2		7403.333	15.220	35.932	51.152	-22.818	73.970	PEAK
3	*	11256.667	19.880	34.005	53.885	-20.085	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 16:13
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2462MHz)

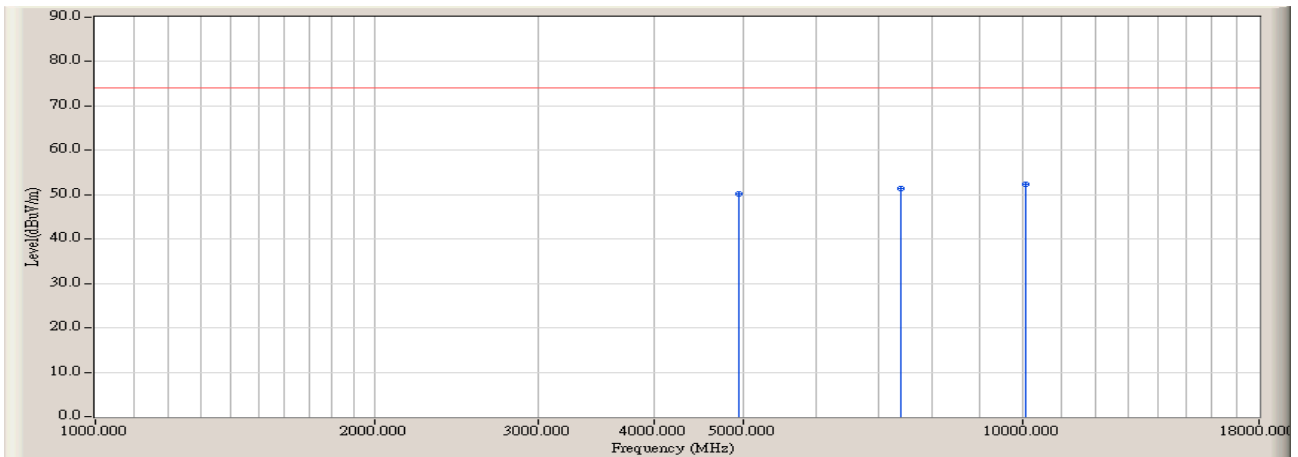


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4938.333	5.169	35.270	40.440	-13.530	53.970	AVERAGE
2		7403.333	15.220	23.160	38.380	-15.590	53.970	AVERAGE
3		11256.667	19.880	20.450	40.330	-13.640	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 16:40
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2462MHz)

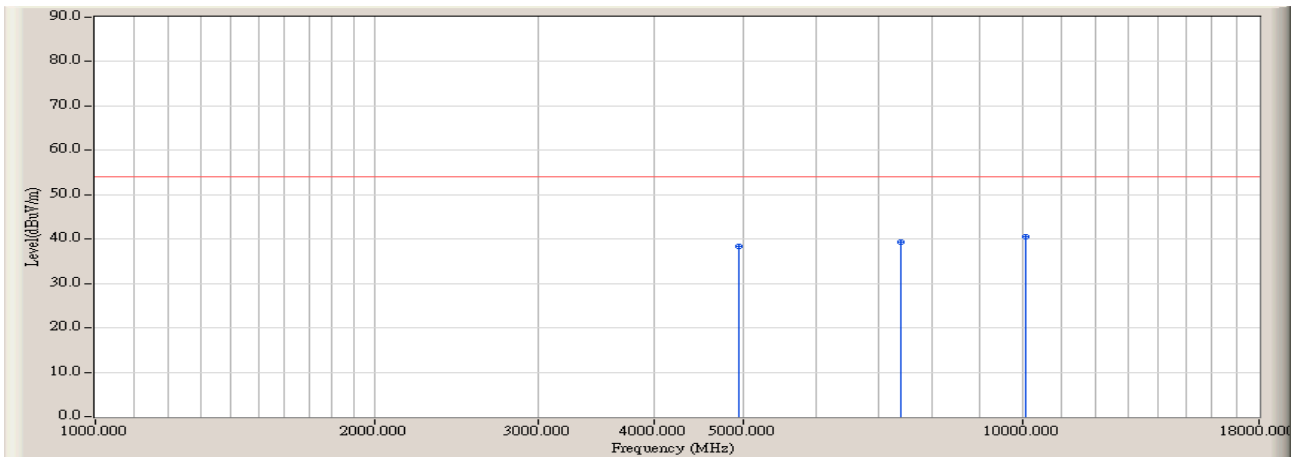


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4938.333	5.169	45.009	50.179	-23.791	73.970	PEAK
2		7403.333	15.220	36.083	51.303	-22.667	73.970	PEAK
3	*	10066.667	18.270	34.056	52.326	-21.644	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : JohnWang	
Site : AC-2	Time : 2007/07/19 - 16:40
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 54M Wireless PCI Adapter	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g(2462MHz)

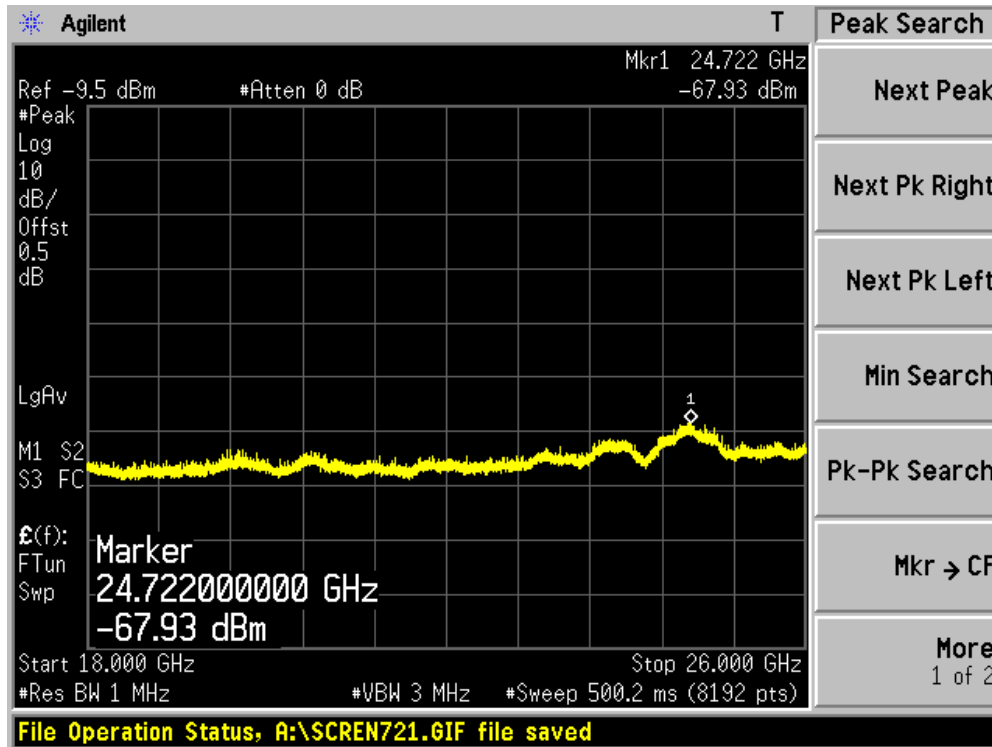


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4938.333	5.169	33.160	38.330	-15.640	53.970	AVERAGE
2		7403.333	15.220	24.150	39.370	-14.600	53.970	AVERAGE
3	*	10066.667	18.270	22.159	40.429	-13.541	53.970	AVERAGE

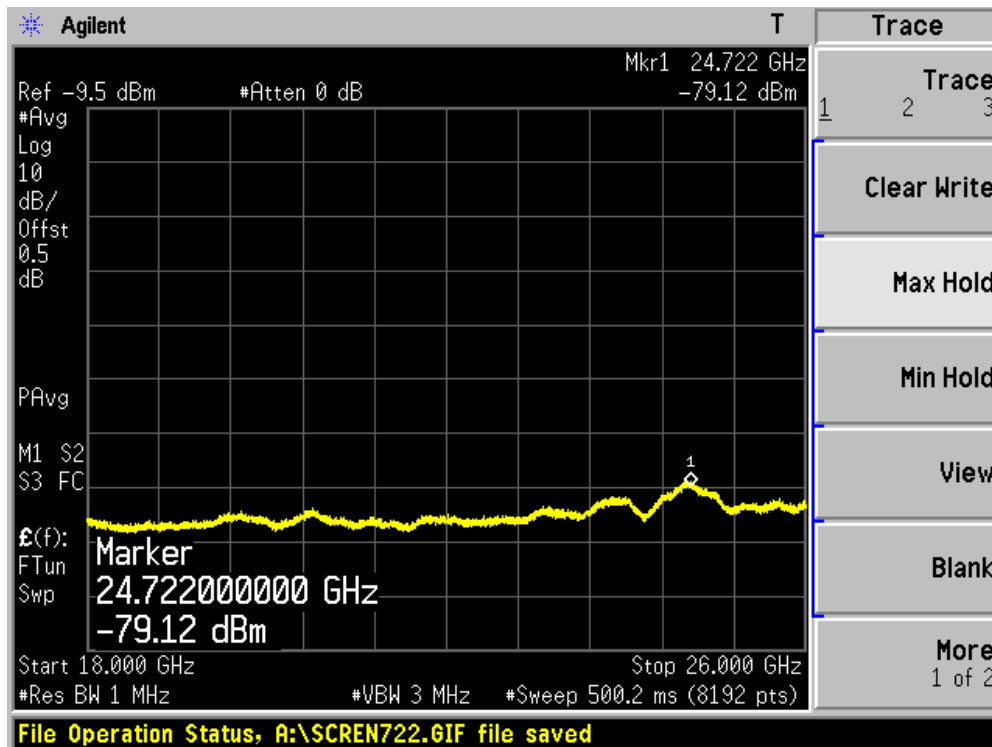
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

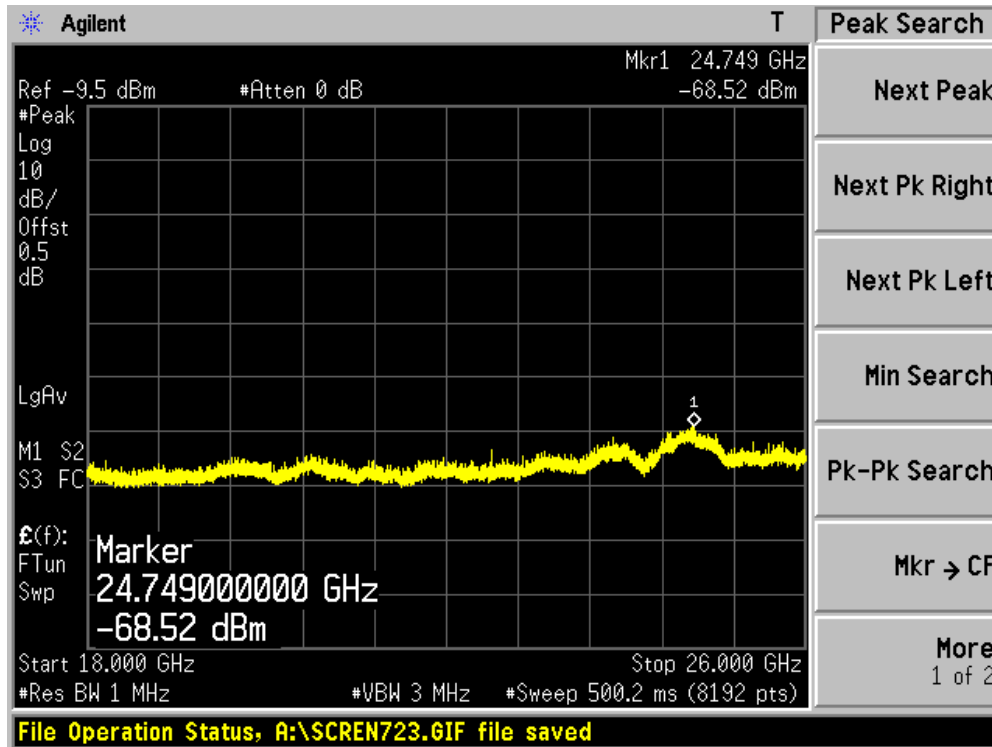
Conducted Spurious - Channel 01 (2412MHz) - 802.11b (Peak)



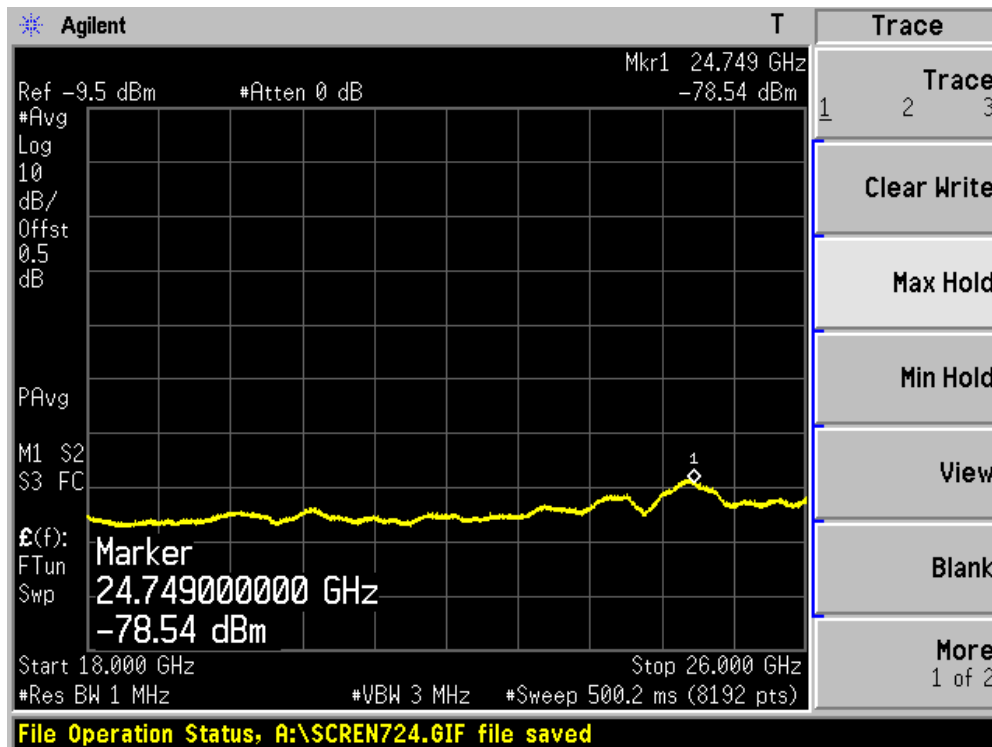
Conducted Spurious - Channel 01 (2412MHz) - 802.11b (Average)



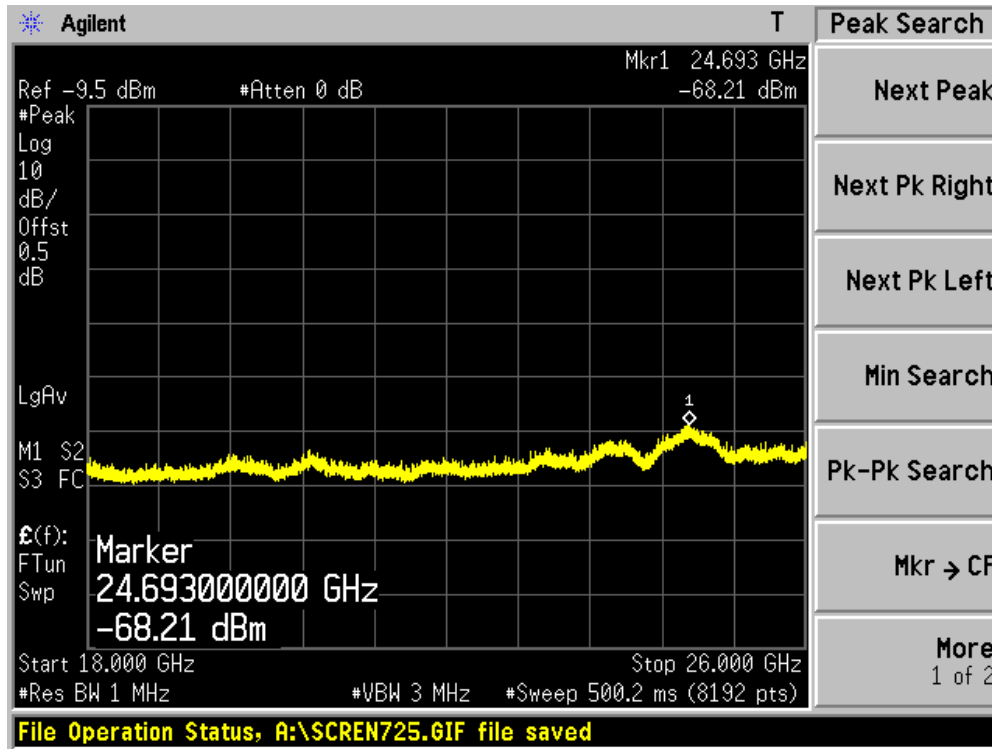
Conducted Spurious - Channel 06 (2437MHz) - 802.11b (Peak)



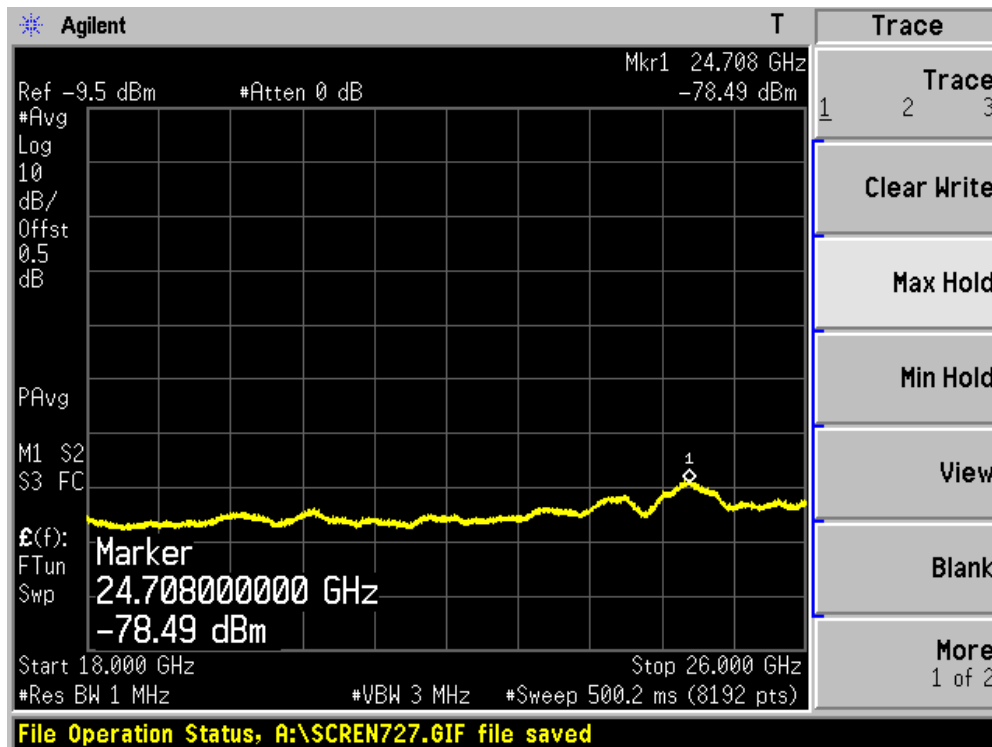
Conducted Spurious - Channel 06 (2437MHz) - 802.11b (Average)



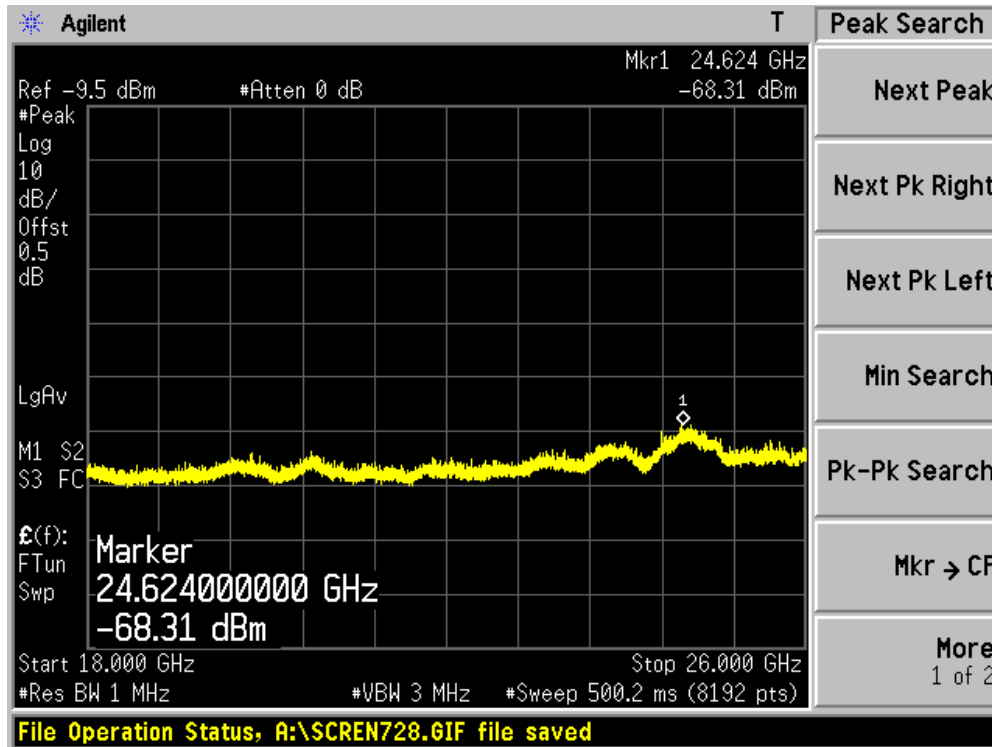
Conducted Spurious - Channel 11 (2462MHz) - 802.11b (Peak)



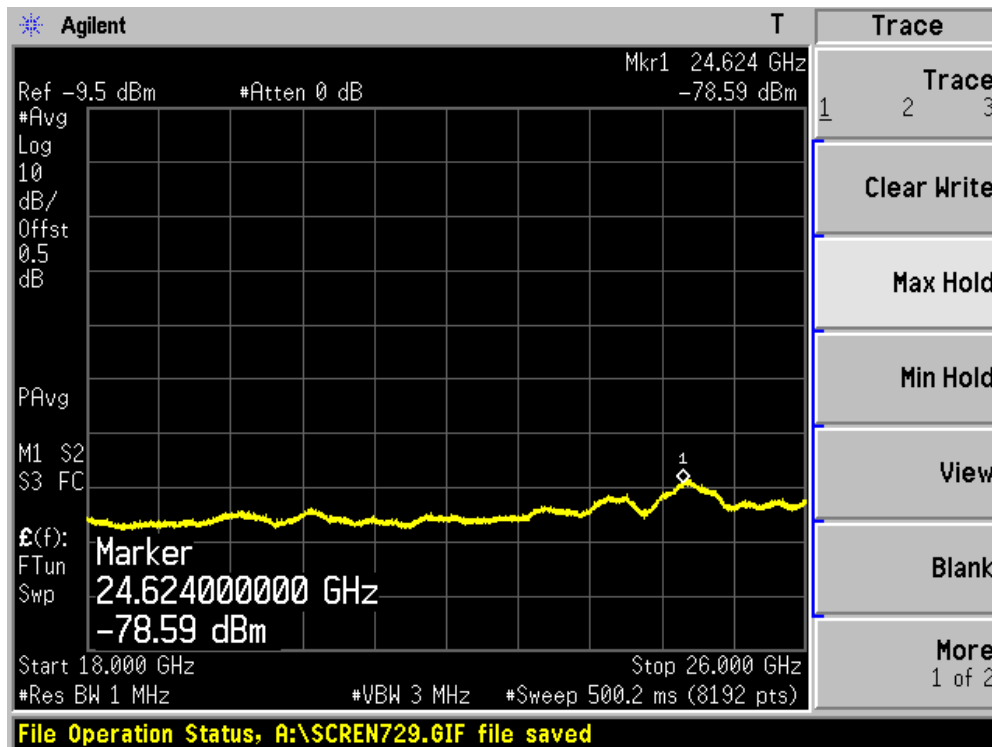
Conducted Spurious - Channel 11 (2462MHz) - 802.11b (Average)



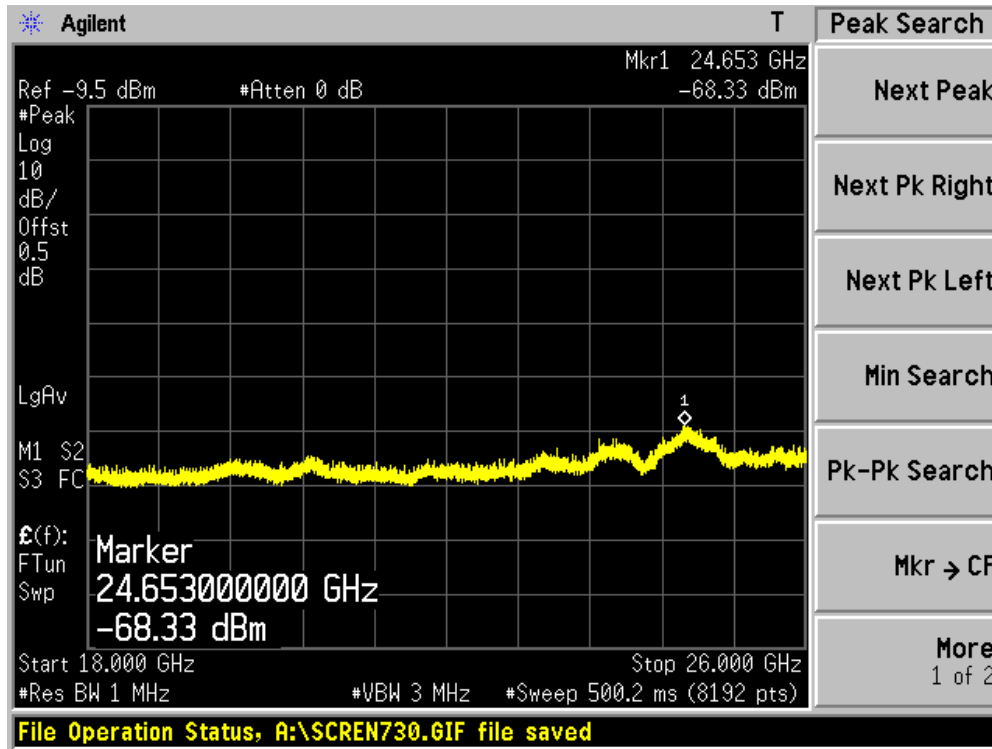
Conducted Spurious - Channel 01 (2412MHz) - 802.11g (Peak)



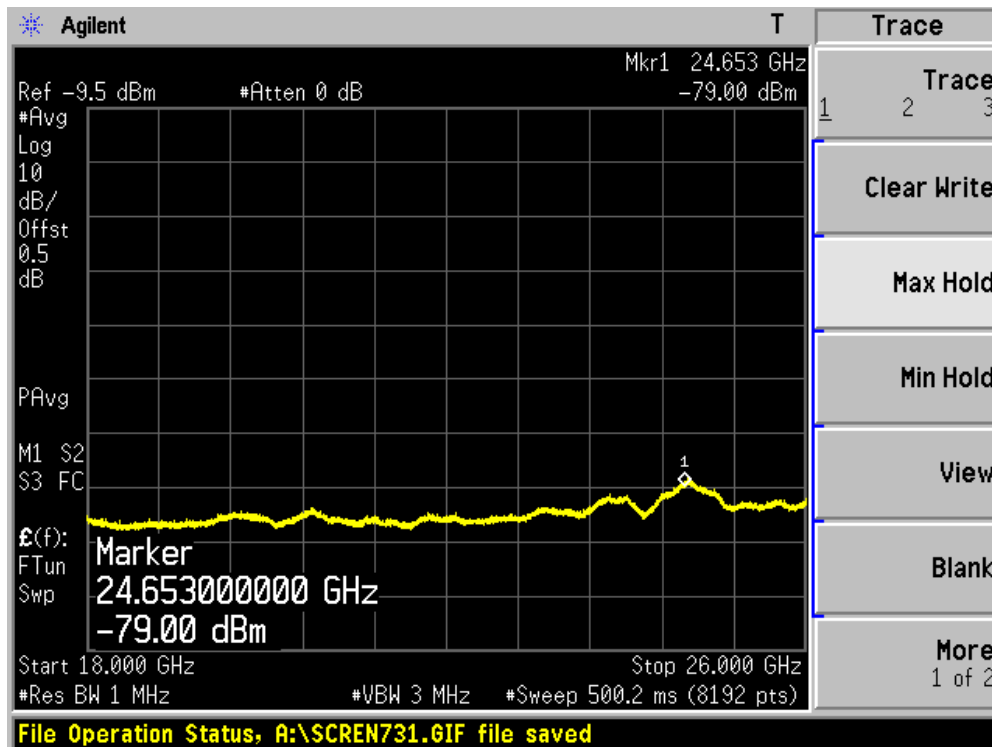
Conducted Spurious - Channel 01 (2412MHz) - 802.11g (Average)



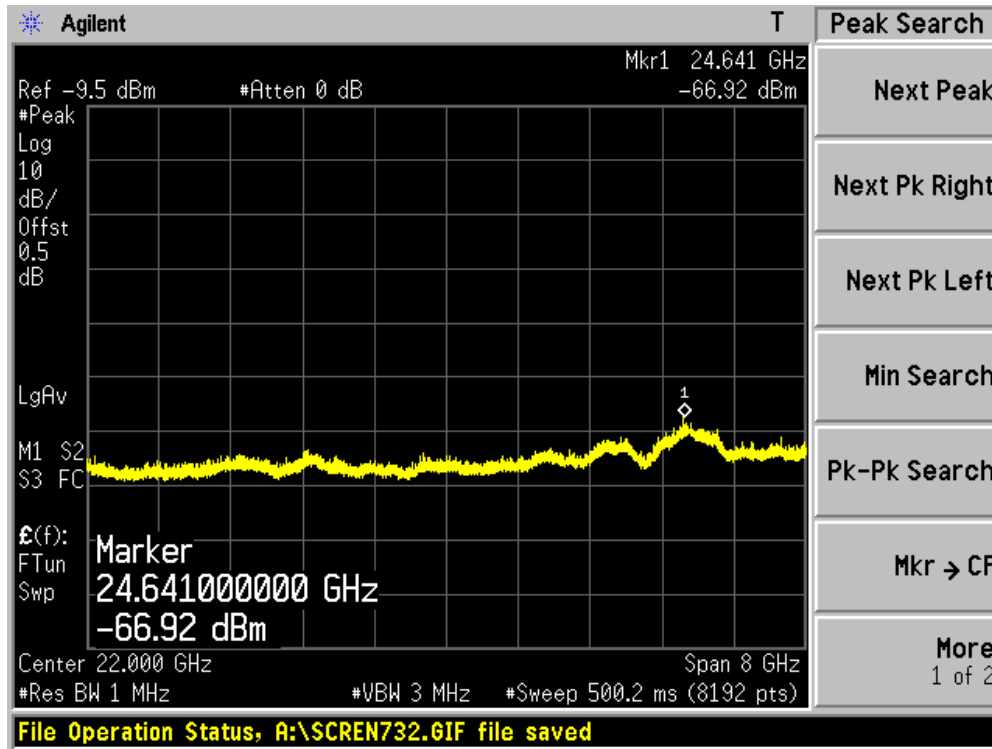
Conducted Spurious - Channel 06 (2437MHz) - 802.11g (Peak)



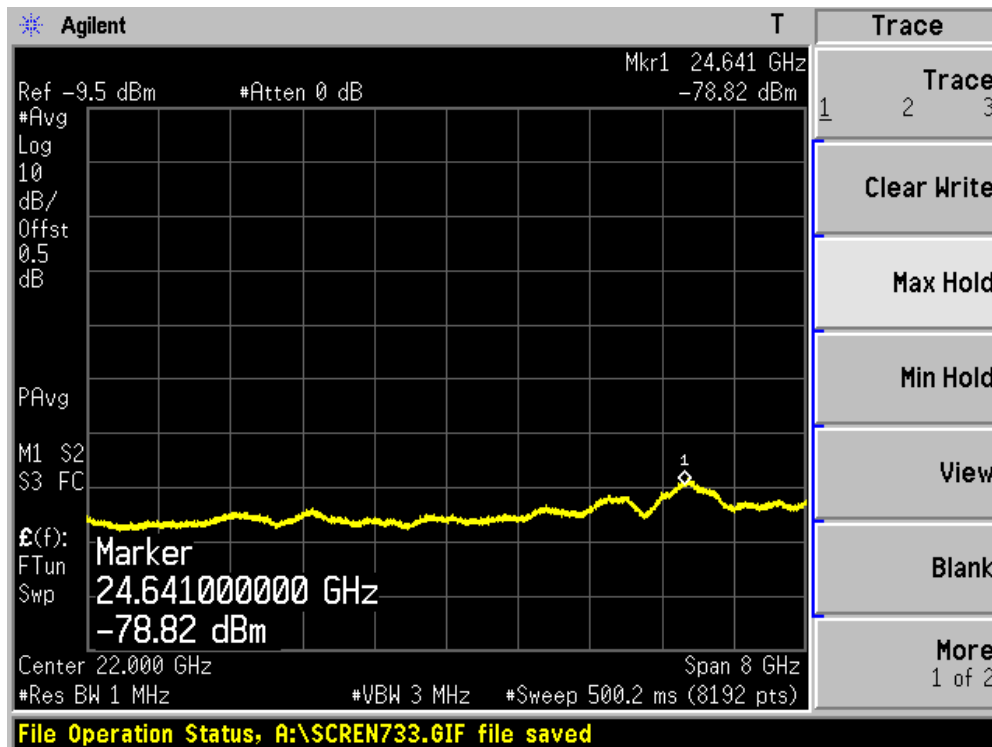
Conducted Spurious - Channel 06 (2437MHz) - 802.11g (Average)



Conducted Spurious - Channel 11 (2462MHz) - 802.11g (Peak)



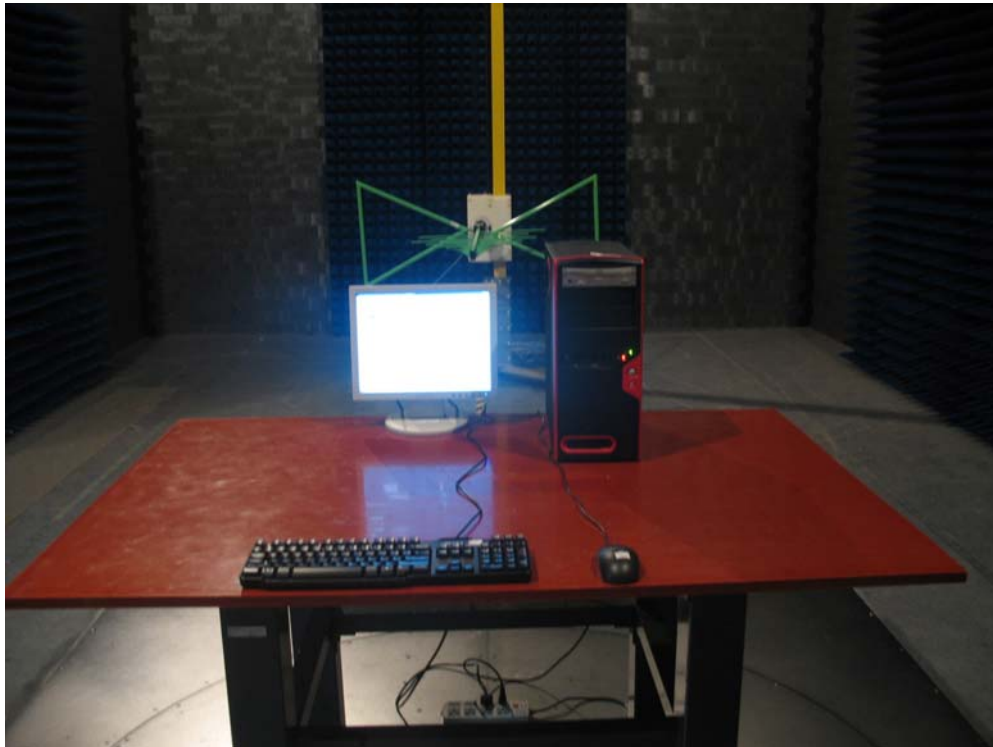
Conducted Spurious - Channel 11 (2462MHz) - 802.11g (Average)



4.7. Test Photograph

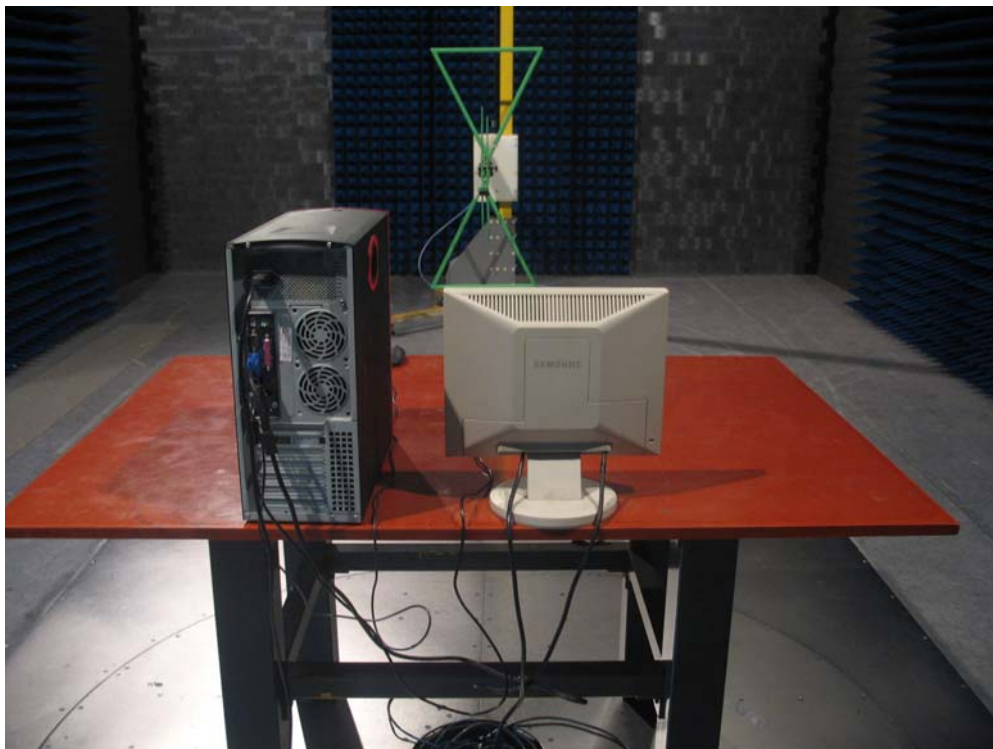
Test Mode: Mode 1: Transmit by 802.11b

Description: Front View of Radiated Test (Under 1GHz)



Test Mode: Mode 1: Transmit by 802.11b

Description: Back View of Radiated Test (Under 1GHz)



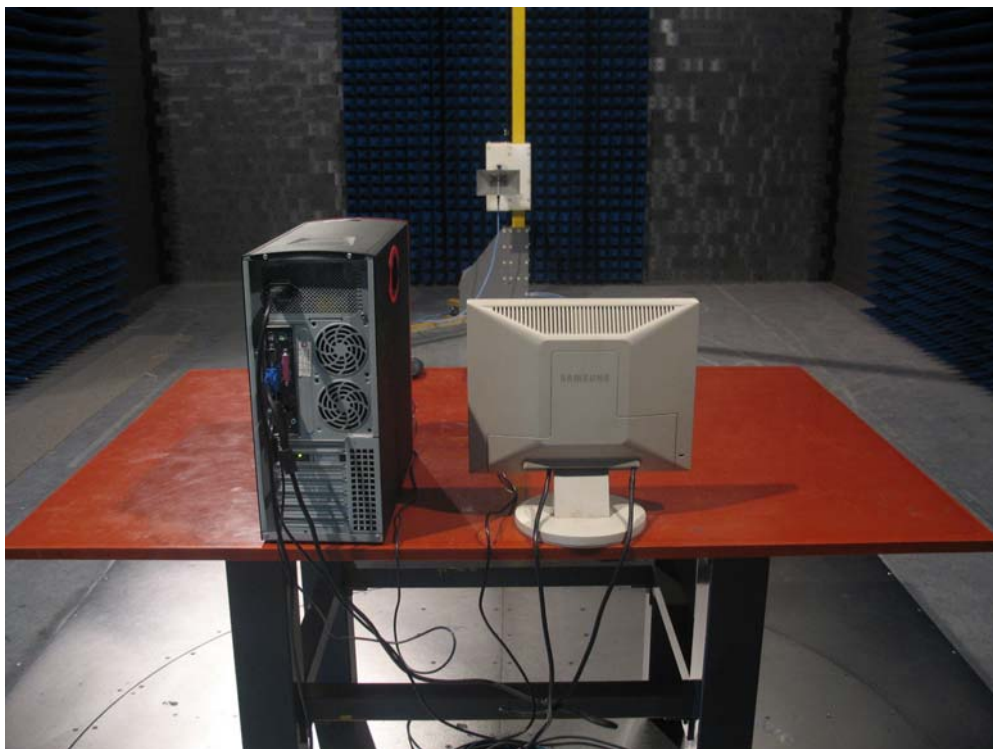
Test Mode: Mode 1: Transmit by 802.11b

Description: Front View of Radiated Test (Above 1GHz)



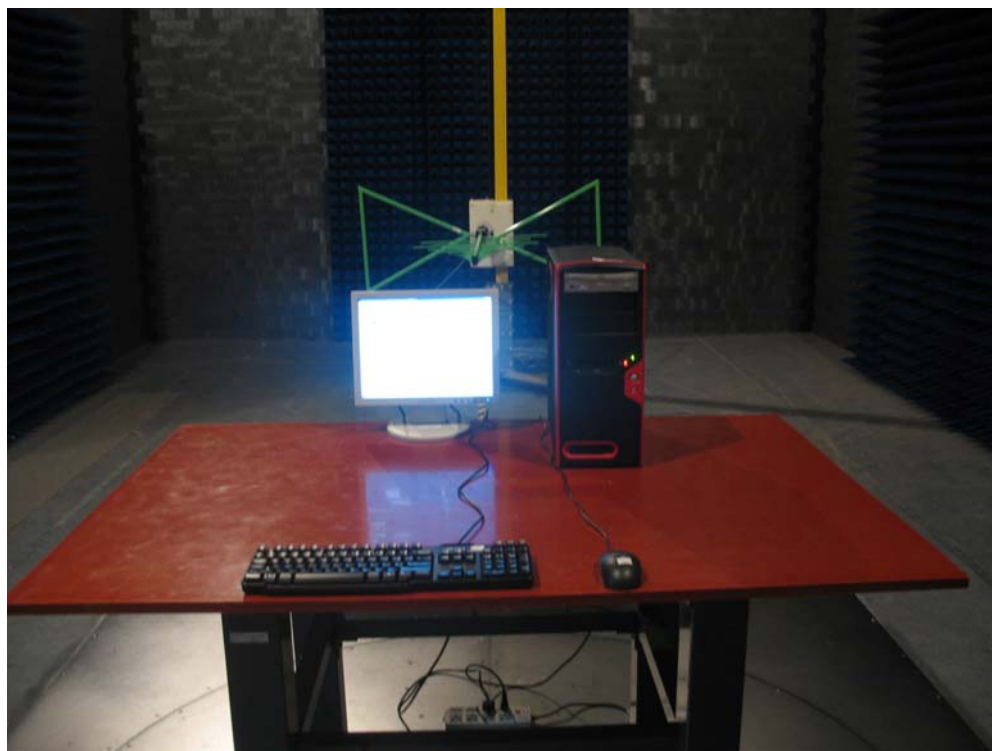
Test Mode: Mode 1: Transmit by 802.11b

Description: Back View of Radiated Test (Above 1GHz)



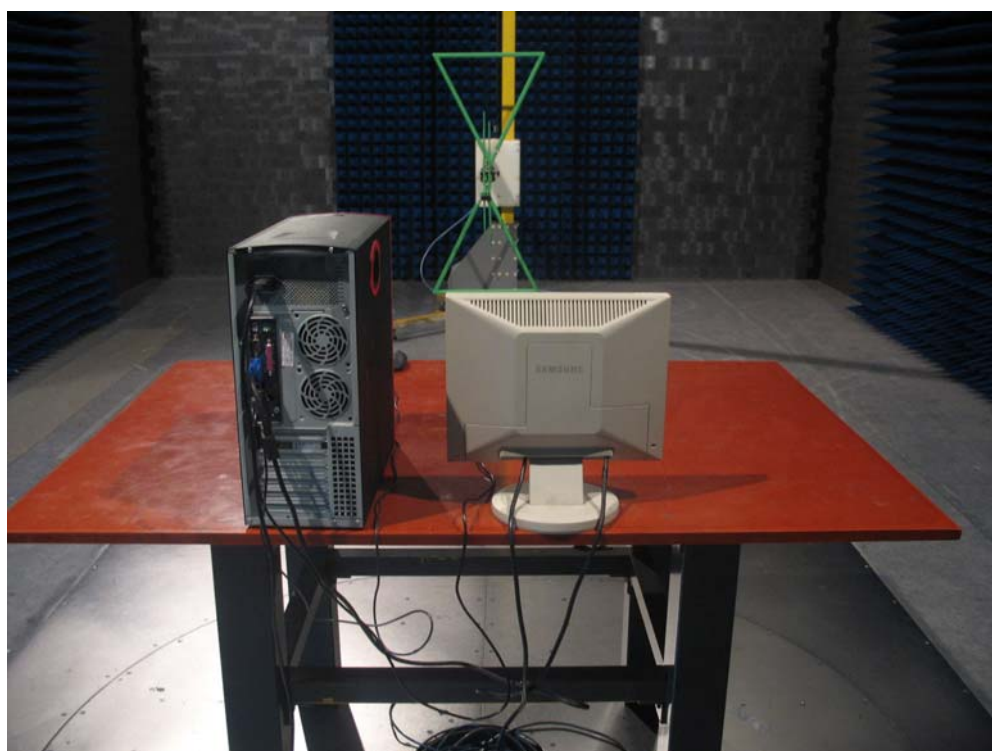
Test Mode: Mode 2: Transmit by 802.11g

Description: Front View of Radiated Test (Under 1GHz)



Test Mode: Mode 2: Transmit by 802.11g

Description: Back View of Radiated Test (Under 1GHz)



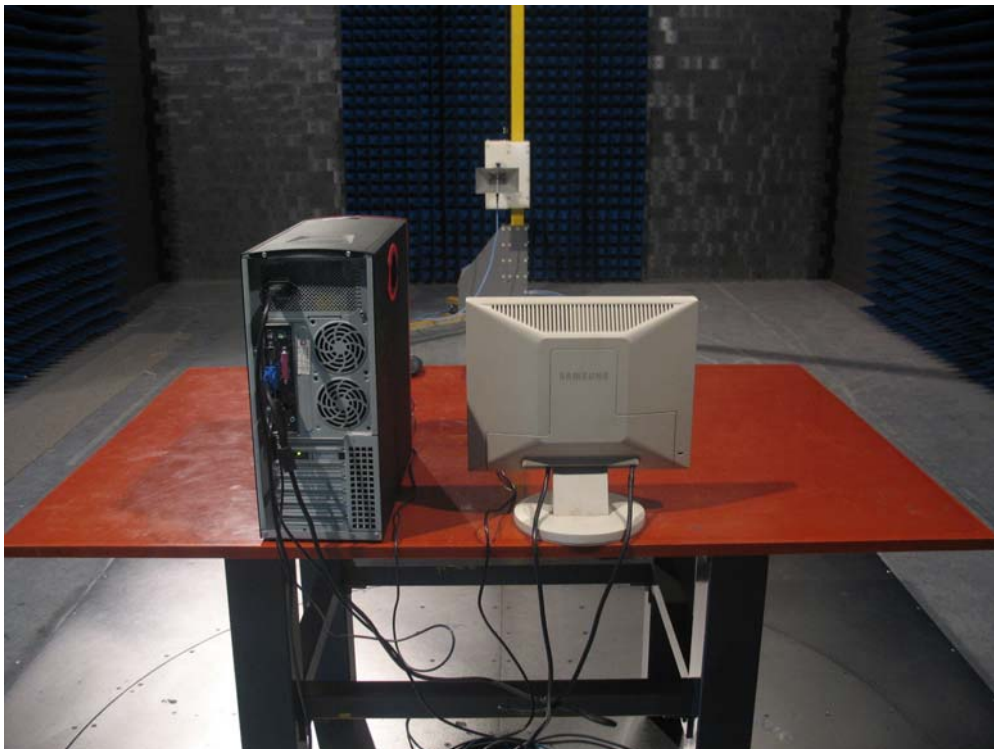
Test Mode: Mode 2: Transmit by 802.11g

Description: Front View of Radiated Test (Above 1GHz)



Test Mode: Mode 2: Transmit by 802.11g

Description: Back View of Radiated Test (Above 1GHz)



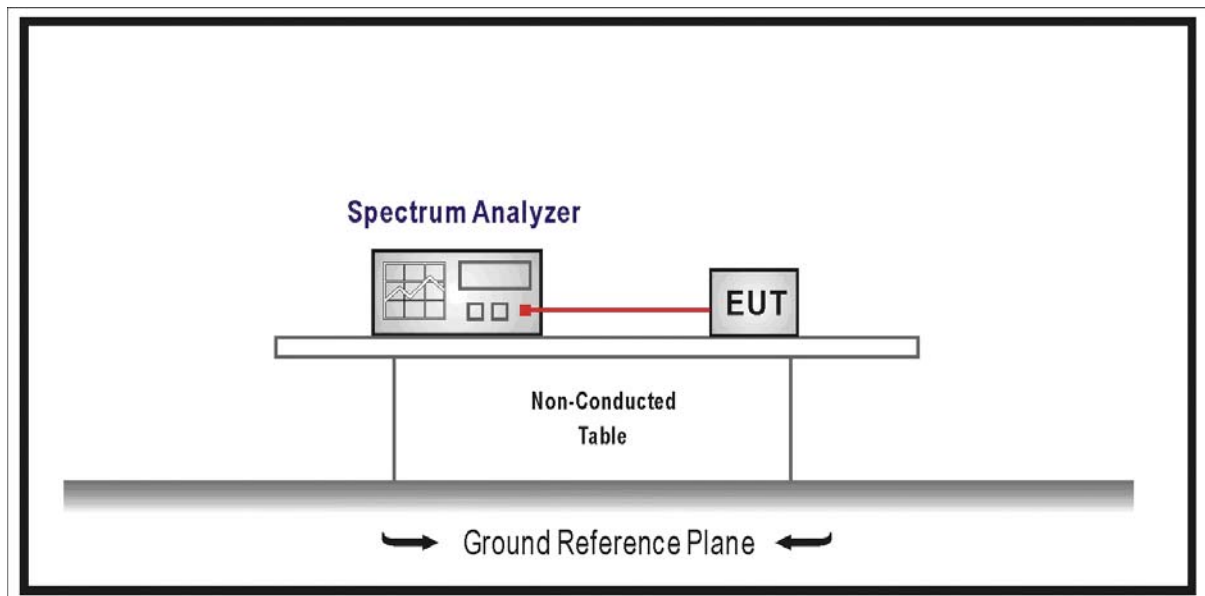
5. Peak Power Output

5.1. Test Equipment

Peak Power Output / AC-3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC3-RF	08	2006/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2007/03/31

5.2. Test Setup



5.3. Limit

The maximum peak power shall be less 1Watt (30dBm).

The conducted output power limit is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of standard FCC part 15.247, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values above, by the amount in dB that the directional gain of the antenna exceeds dBi.

5.4. Test Procedure

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer.
- c) Add a correction factor to the display, and then test.

5.5. Uncertainty

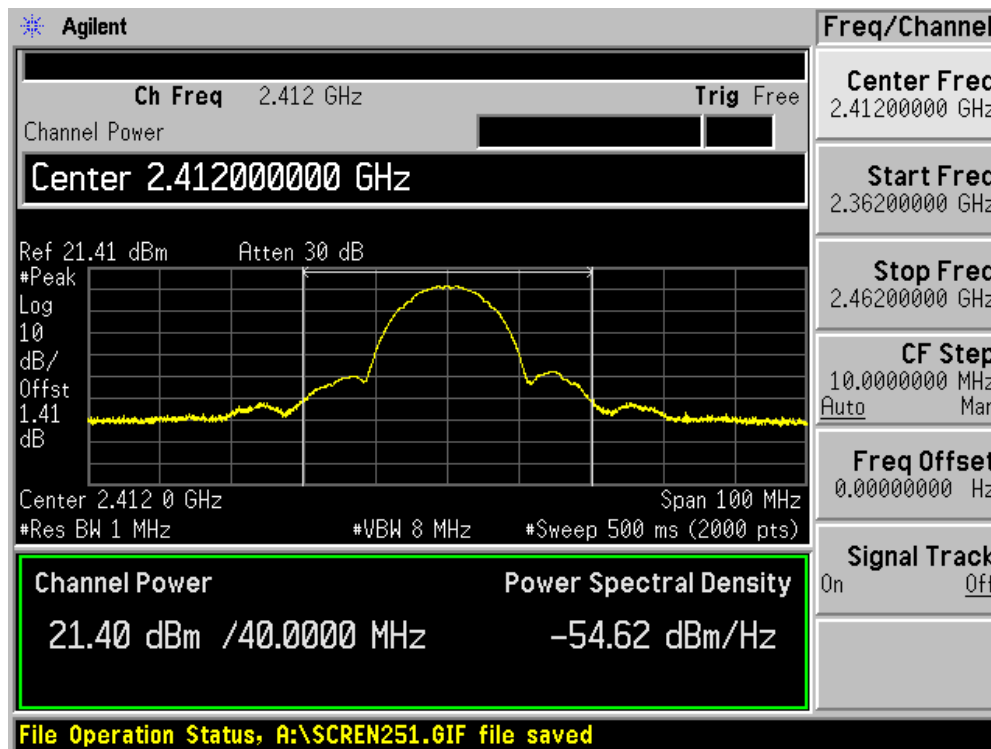
The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

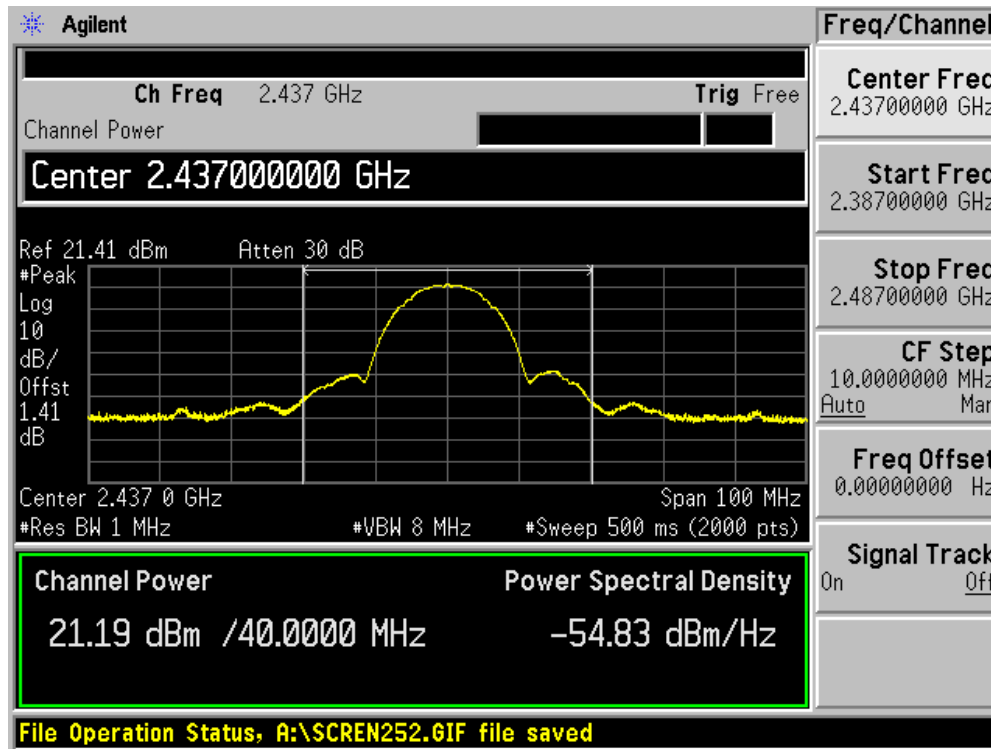
Product	:	54M Wireless PCI Adapter
Test Item	:	Peak Power Output
Test Site	:	AC-3
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412.00	21.40	30	Pass
06	2437.00	21.19	30	Pass
11	2462.00	20.34	30	Pass

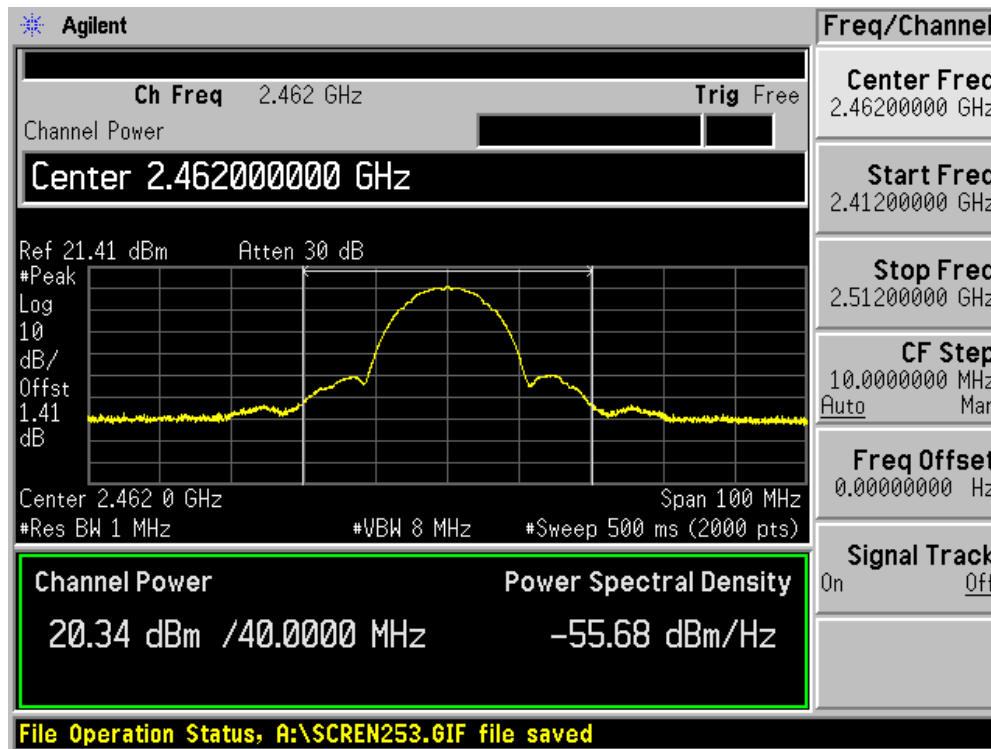
Channel 01 (2412MHz)



Channel 06 (2437MHz)



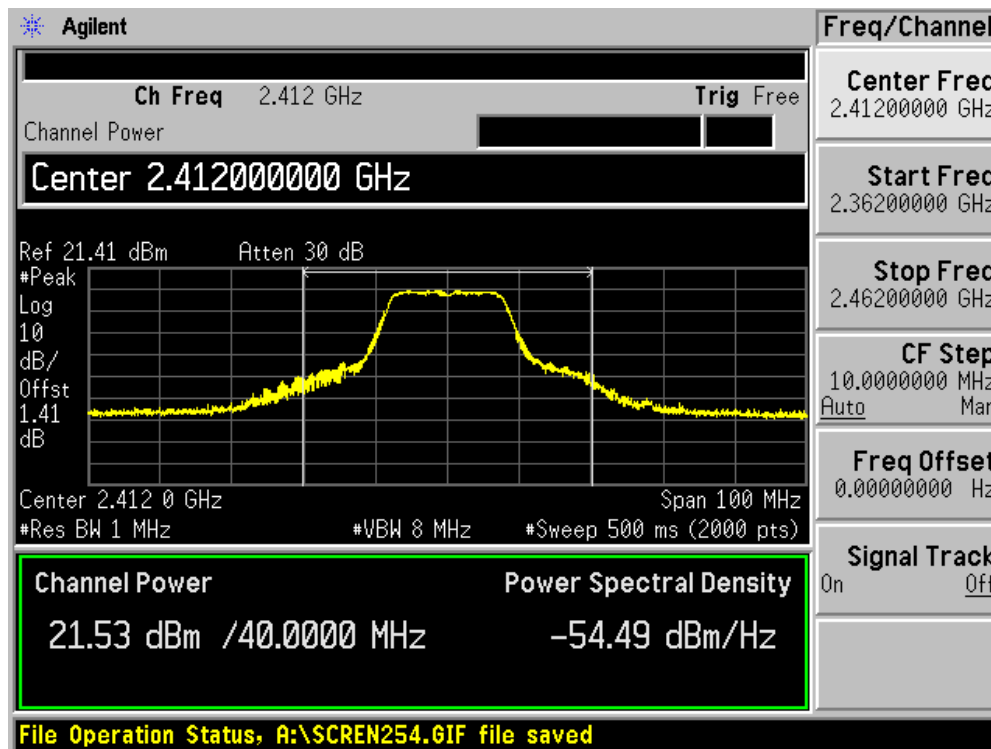
Channel 11 (2462MHz)



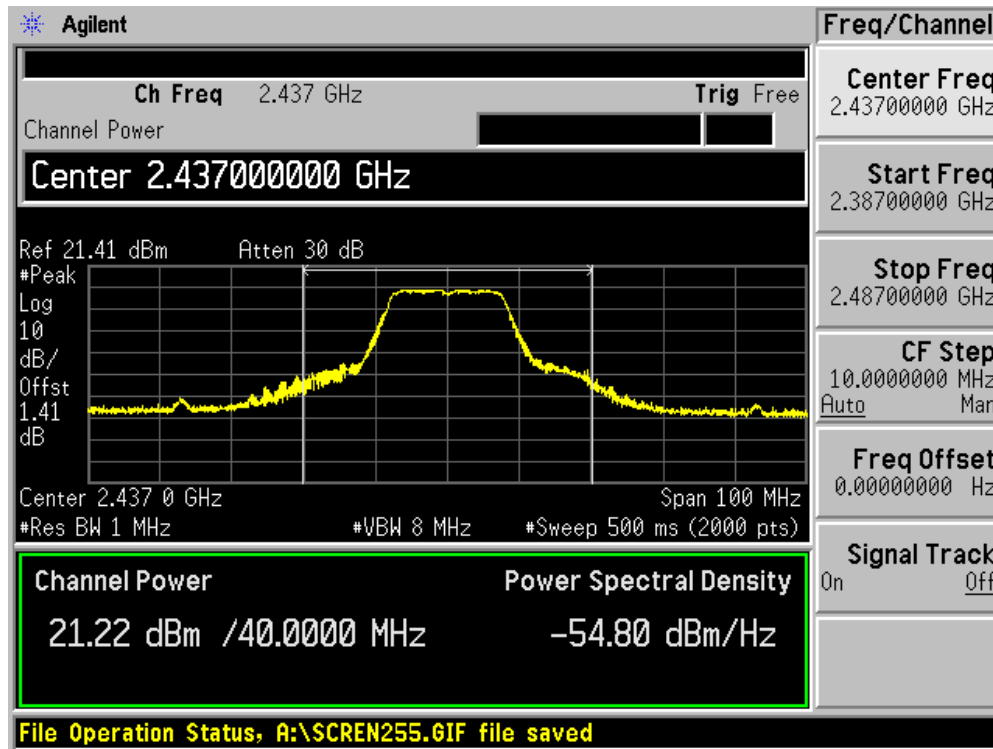
Product	: 54M Wireless PCI Adapter
Test Item	: Peak Power Output
Test Site	: AC-3
Test Mode	: Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412.00	21.53	30	Pass
06	2437.00	21.22	30	Pass
11	2462.00	21.21	30	Pass

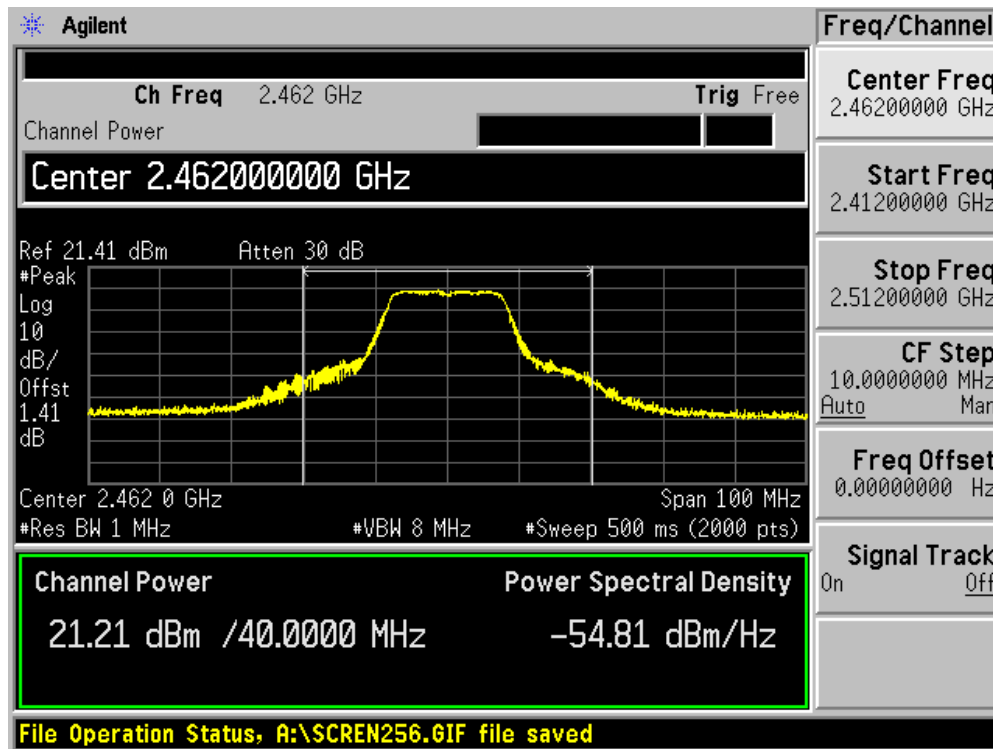
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



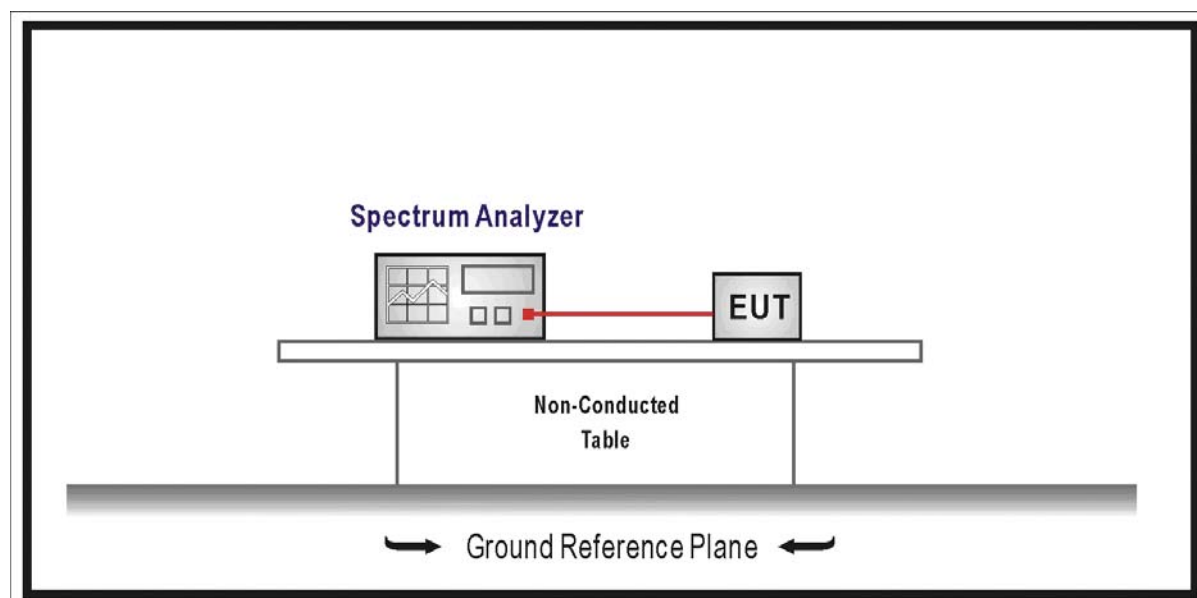
6. Occupied Bandwidth

6.1. Test Equipment

Occupied Bandwidth / AC-3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC3-RF	08	2006/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2007/03/31

6.2. Test Setup



6.3. Limit

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 5850 MHz band. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.4. Test Procedure

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer.
- c) Add a correction factor to the display, and then test.

6.5. Uncertainty

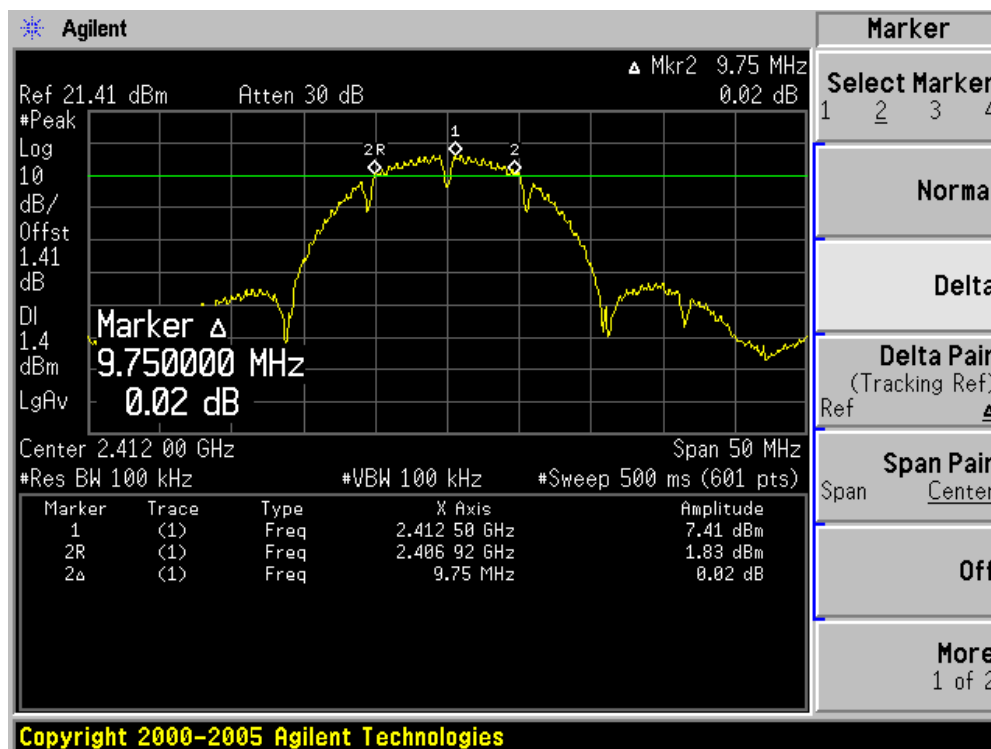
The measurement uncertainty is defined as ± 100 Hz

6.6. Test Result

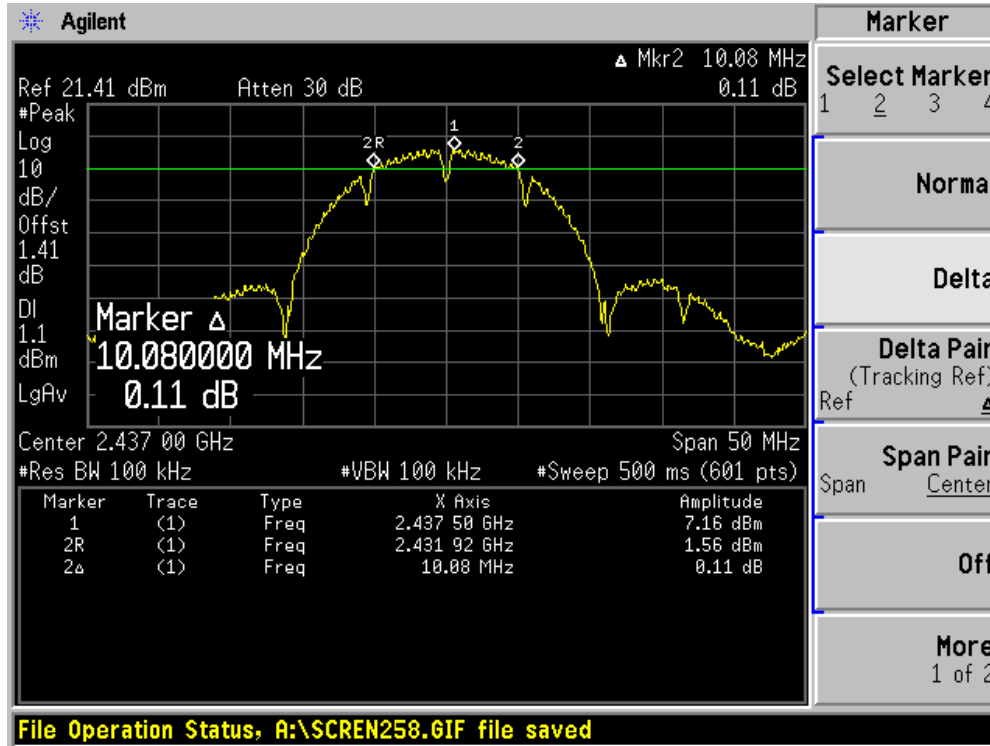
Product	:	54M Wireless PCI Adapter
Test Item	:	Occupied Bandwidth
Test Site	:	AC-3
Test Mode	:	Mode 1: Transmit by 802.11b (6dB)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	9750	500	Pass
06	2437	10080	500	Pass
11	2462	10000	500	Pass

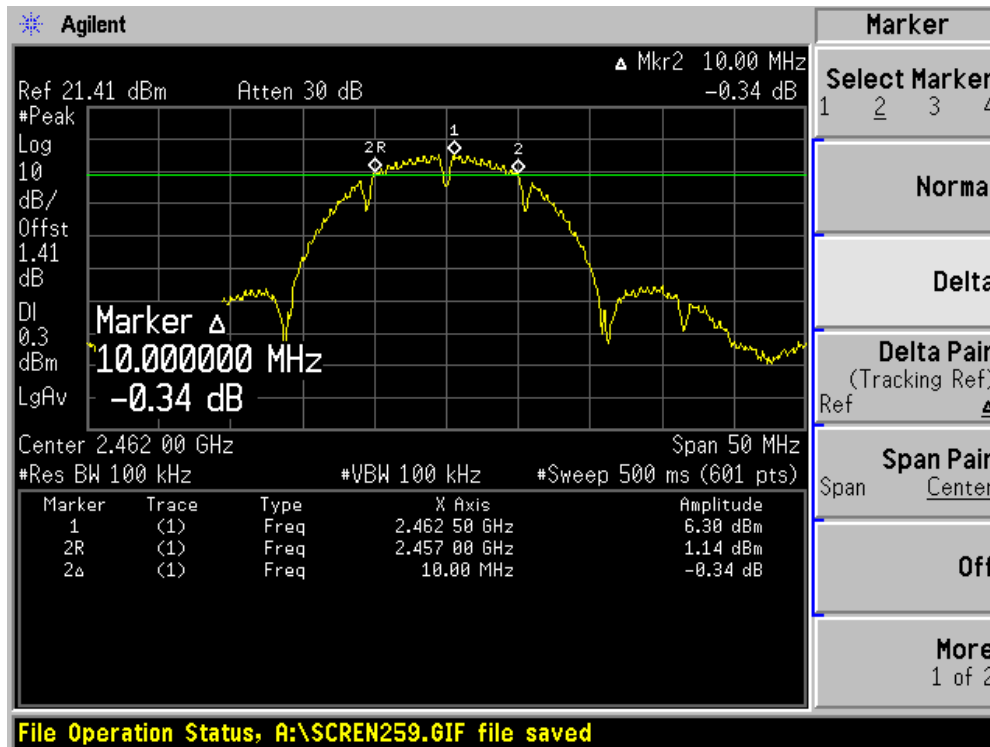
Channel 01 (2412MHz)



Channel 06 (2437MHz)



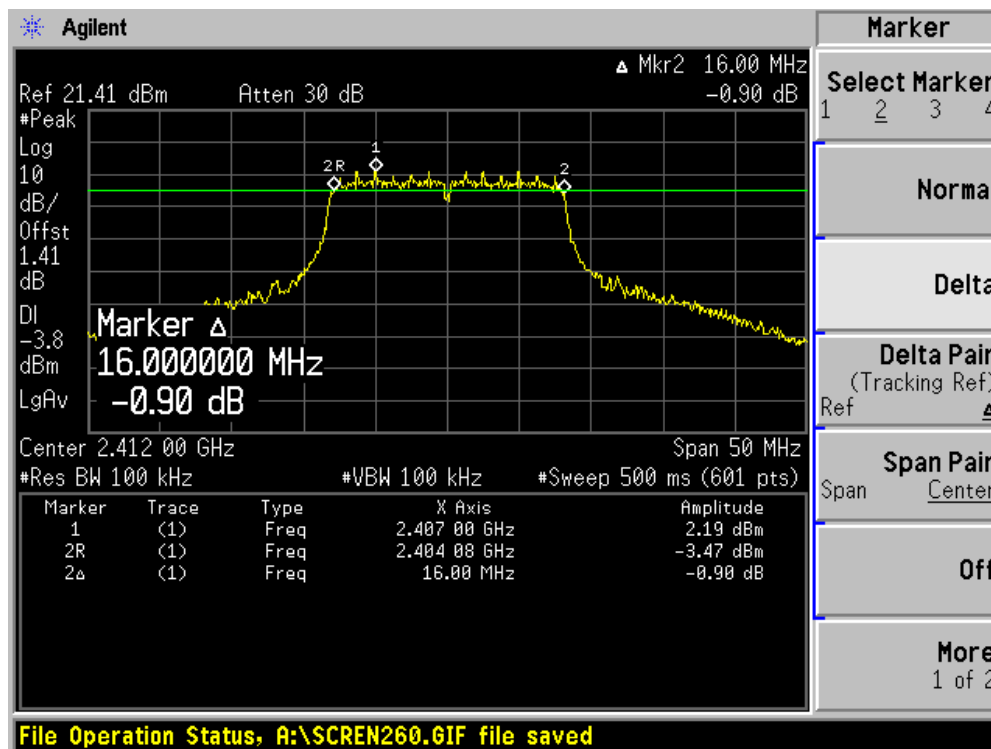
Channel 11 (2462MHz)



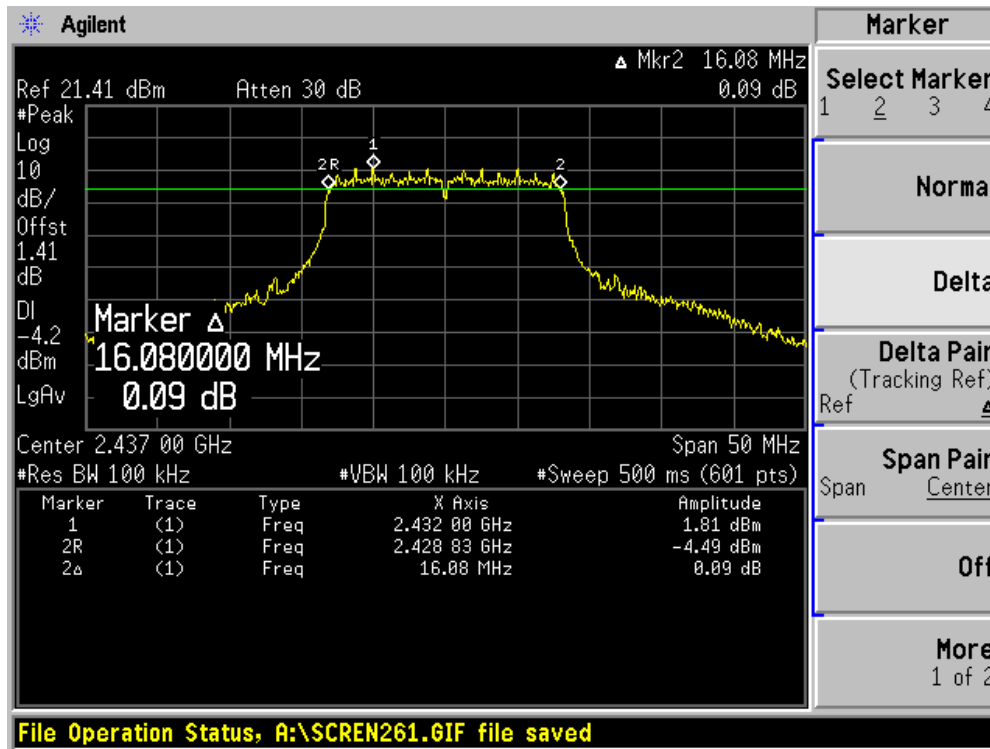
Product	: 54M Wireless PCI Adapter
Test Item	: Occupied Bandwidth
Test Site	: AC-3
Test Mode	: Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	16000	500	Pass
06	2437	16080	500	Pass
11	2462	15750	500	Pass

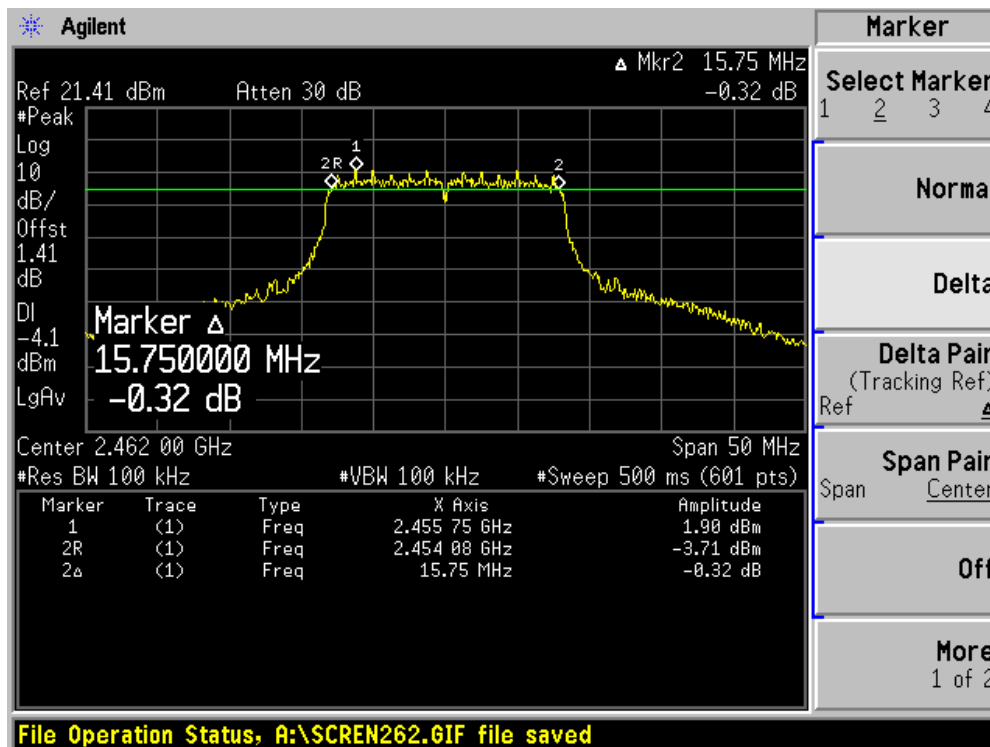
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



7. Band Edge

7.1. Test Equipment

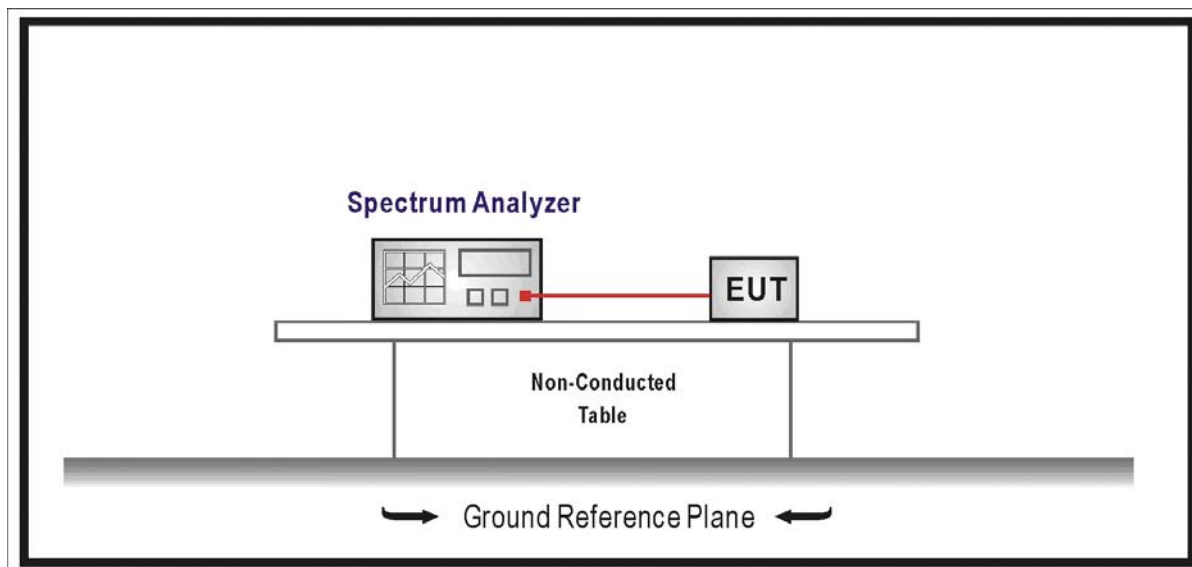
Band Edge / AC-2

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2006/11/20
Preamplifier	Quietek	AP-180C	CHM-0602013	2006/11/25
Bilog Type Antenna	Schaffner	CBL6112B	2932	2006/11/22
*Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2005/11/25
50ohm Coaxial Switch	ANRITSU	MP59B	6200447304	2006/11/25
Coaxial Cable	Huber+Suhner	AC2-C	04	2006/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2007/03/30

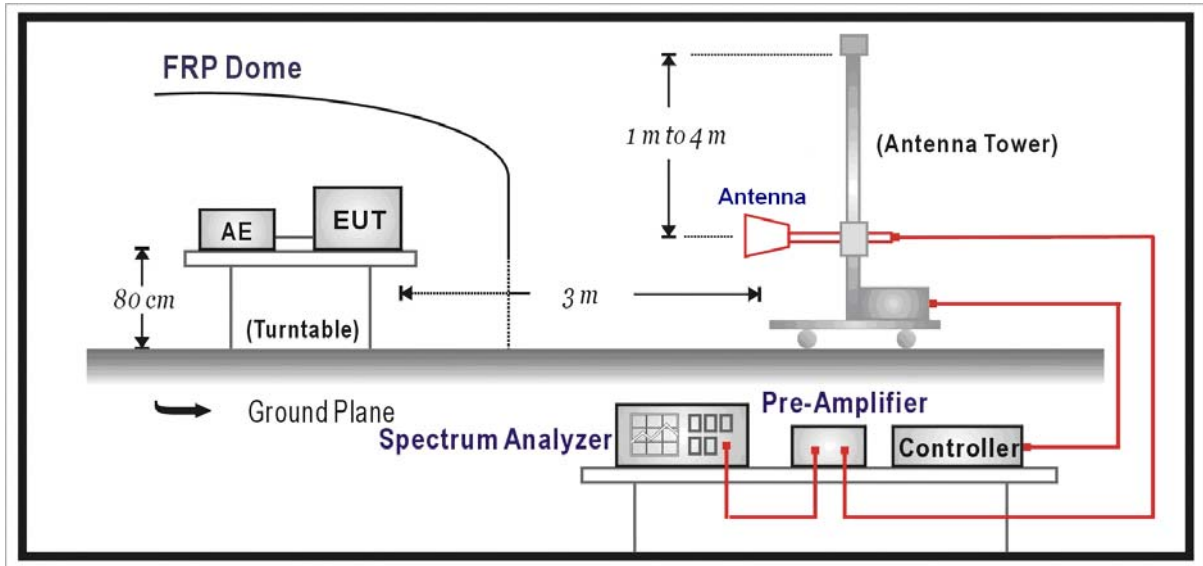
Note: "*" means the test device calibration period for two years.

7.2. Test Setup

RF Conducted Measurement



RF Radiated Measurement



7.3. Limit

For 15.215(C) requirement:

Intentional radiators operating under the alternative provisions to the general emission limits as contained in 15.217 through 15.257 and in Subpart E of FCC part 15, must be designed to ensure that 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

For 15.247(d) requirement:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

7.4. Test Procedure

For RF Conducted Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer.

c) Add a correction factor to the display, and then test.

For RF Radiated Measurement:

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCI) is 120 kHz and above 1GHz is 1MHz.

7.5. Uncertainty

For RF Conducted Measurement:

The measurement uncertainty is defined as ± 1.27 dB

For RF Radiated Measurement:

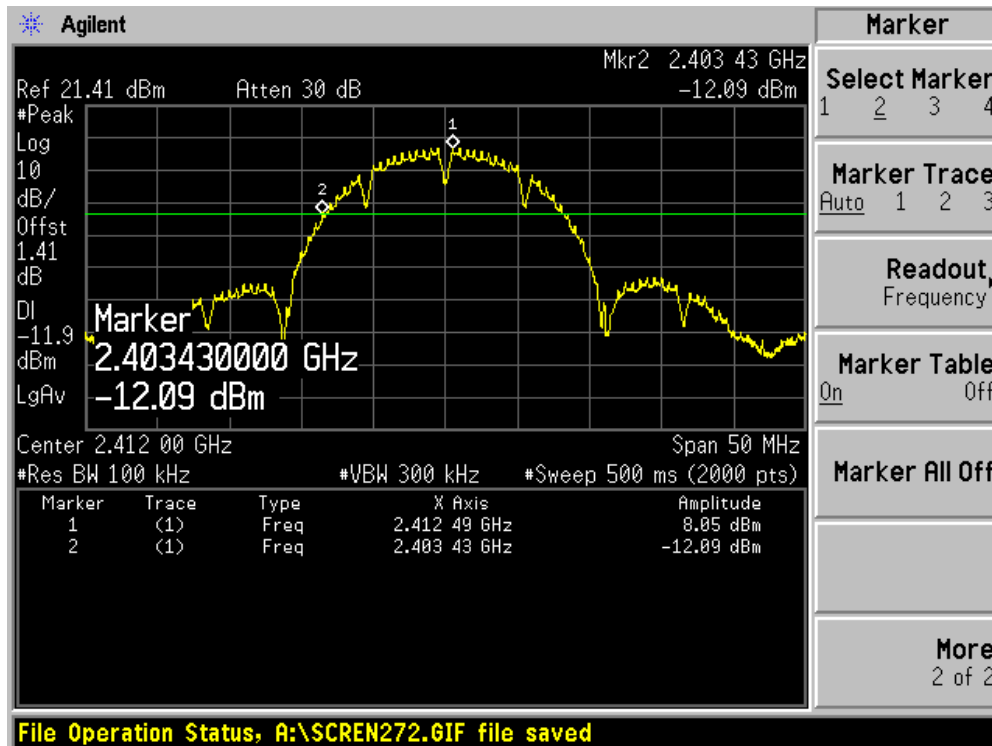
The measurement uncertainty above 1G is defined as ± 3.9 dB

under 1G is defined as ± 3.8 dB

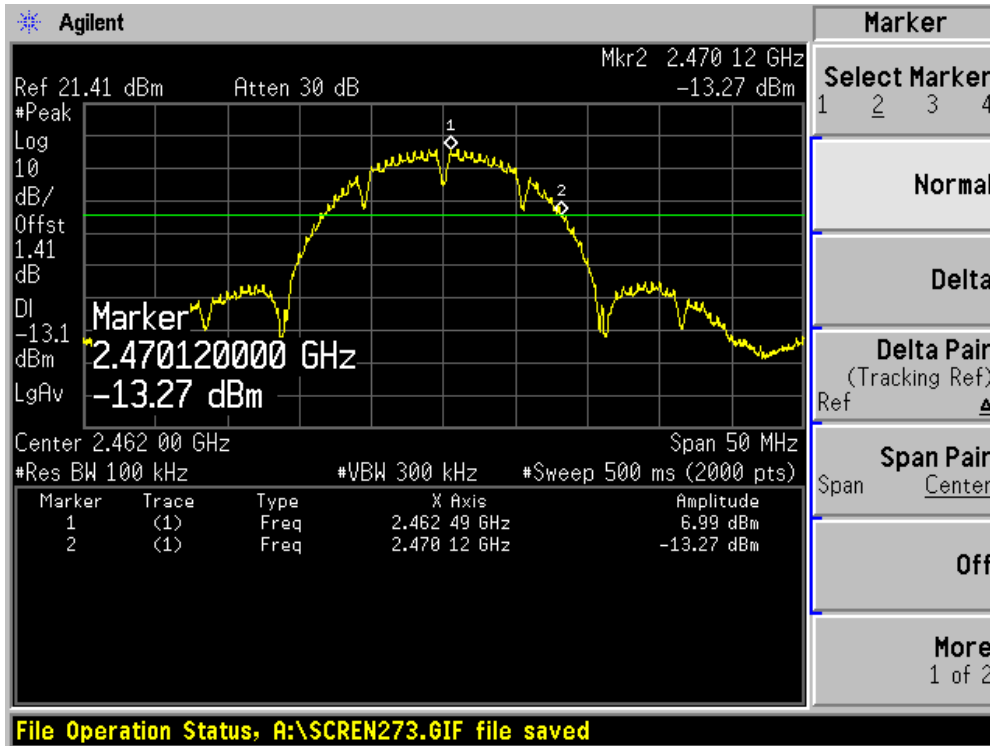
7.6. Test Result

Product	: 54M Wireless PCI Adapter
Test Item	: Band Edge (20dBc RF Conducted Measurement)
Test Site	: AC-2
Test Mode	: Mode 1: Transmit by 802.11b

Channel 01 (2412MHz)

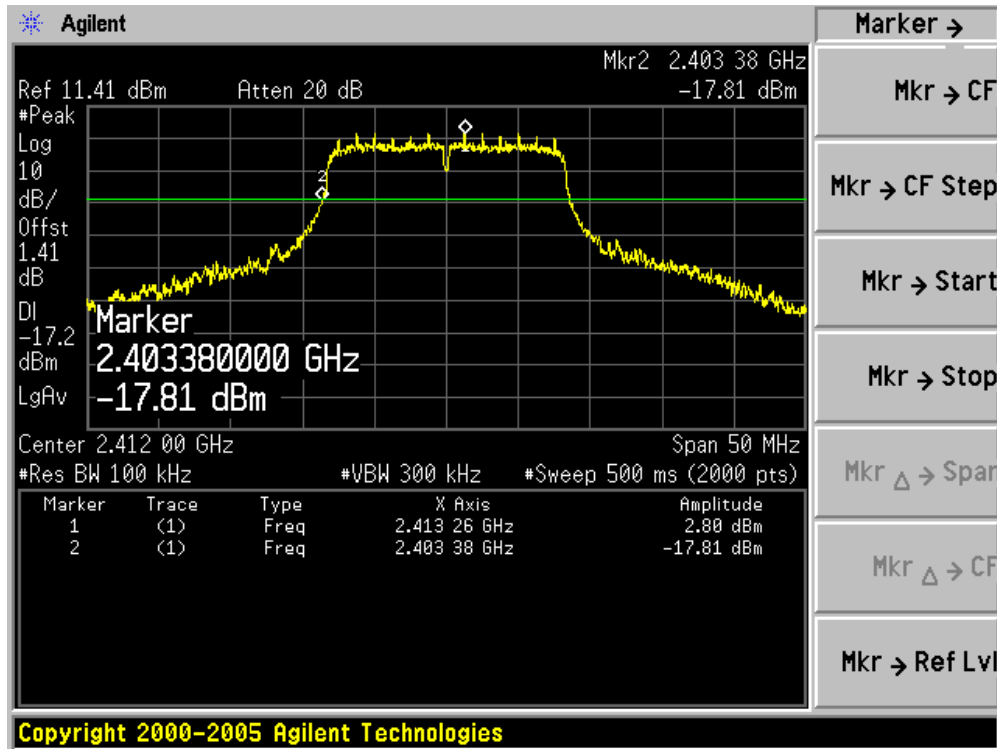


Channel 11 (2462MHz)

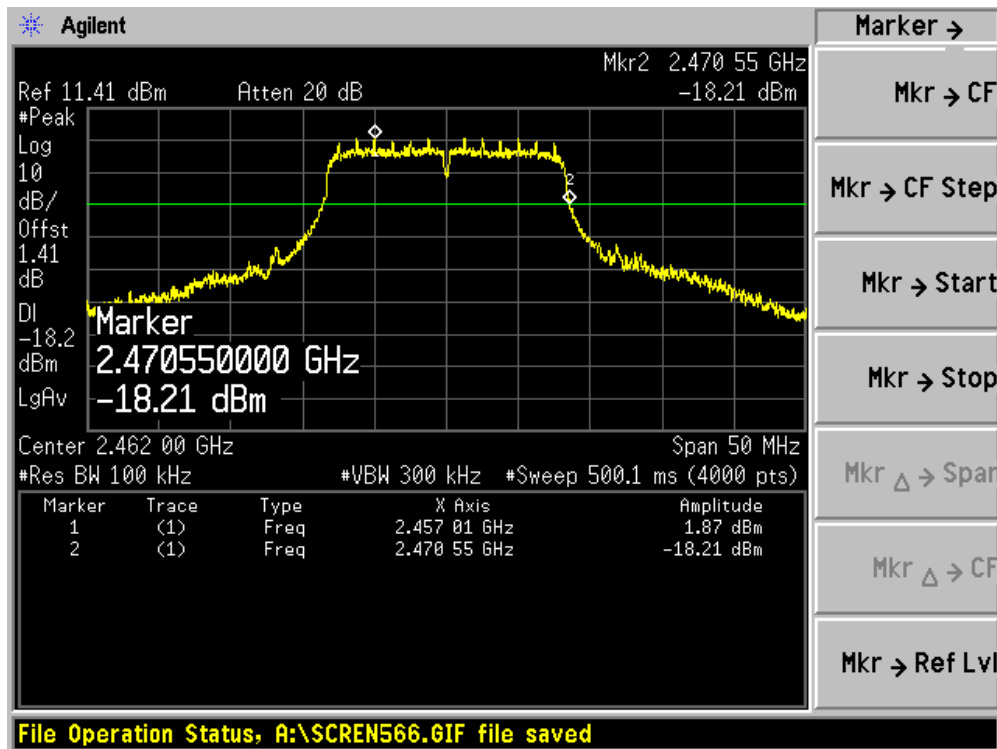


Product	: 54M Wireless PCI Adapter
Test Item	: Band Edge (20dBc Conducted Measurement)
Test Site	: AC-2
Test Mode	: Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)



Channel 11 (2462MHz)



Product	:	54M Wireless PCI Adapter
Test Item	:	Band Edge
Test Site	:	AC-2
Test Mode	:	Mode 1: Transmit by 802.11b (2412MHz)

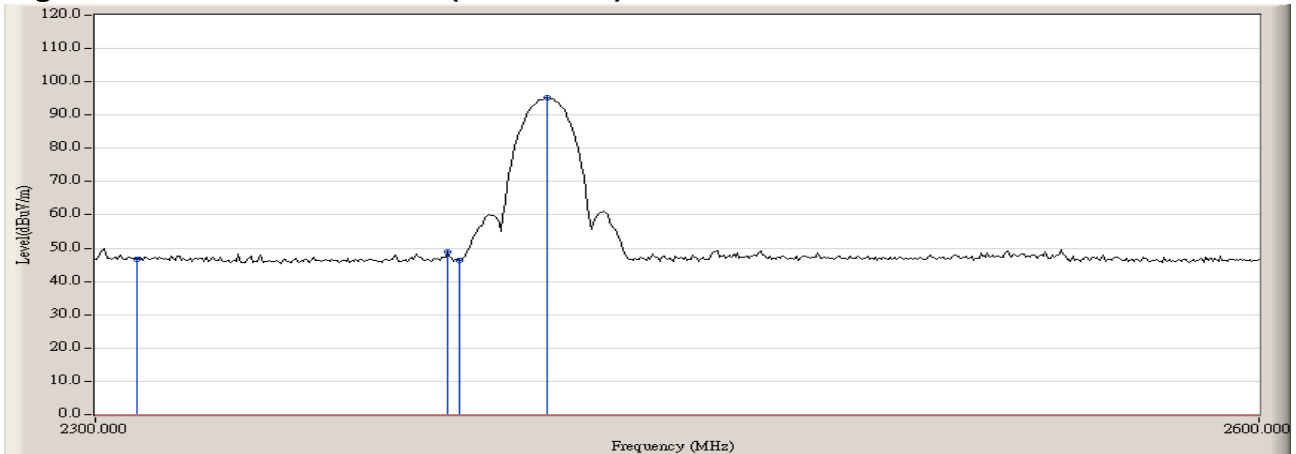
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
01	<2400	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	48.078	46.413	74.00	N/A	Pass
01 (Average)	2390.000	N/A	N/A	N/A	54.00	Pass

Figure Channel 01: 2412MHz (Horizontal)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	:	54M Wireless PCI Adapter
Test Item	:	Band Edge
Test Site	:	AC-2
Test Mode	:	Mode 1: Transmit by 802.11b (2412MHz)

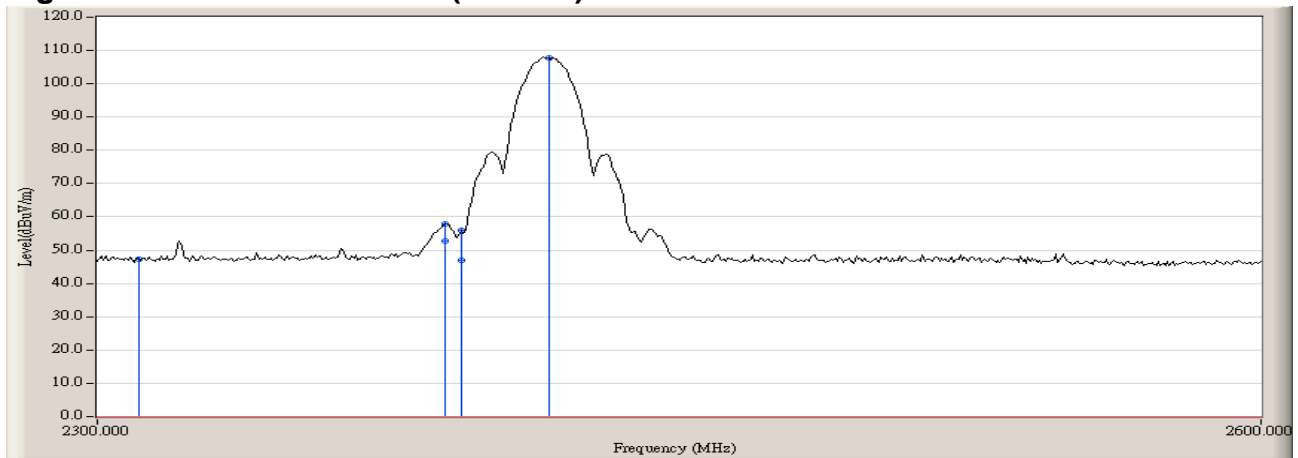
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
01	<2400	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	57.515	55.850	74.00	N/A	Pass
00 (Average)	2390.000	48.740	47.075	N/A	54.00	Pass

Figure Channel 01: 2412MHz (Vertical)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	:	54M Wireless PCI Adapter
Test Item	:	Band Edge
Test Site	:	AC-2
Test Mode	:	Mode 1: Transmit by 802.11b (2462MHz)

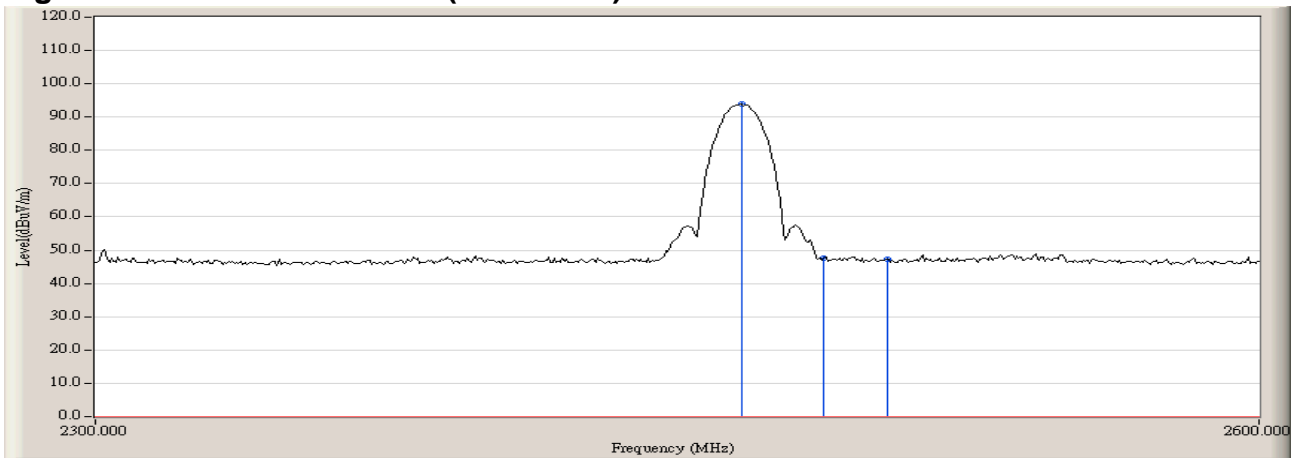
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11	>2483.5	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2483.500	49.185	47.555	74.00	N/A	Pass
00 (Average)	2483.500	N/A	N/A	N/A	54.00	Pass

Figure Channel 11: 2462MHz (Horizontal)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	:	54M Wireless PCI Adapter
Test Item	:	Band Edge
Test Site	:	AC-2
Test Mode	:	Mode 1: Transmit by 802.11b (2462MHz)

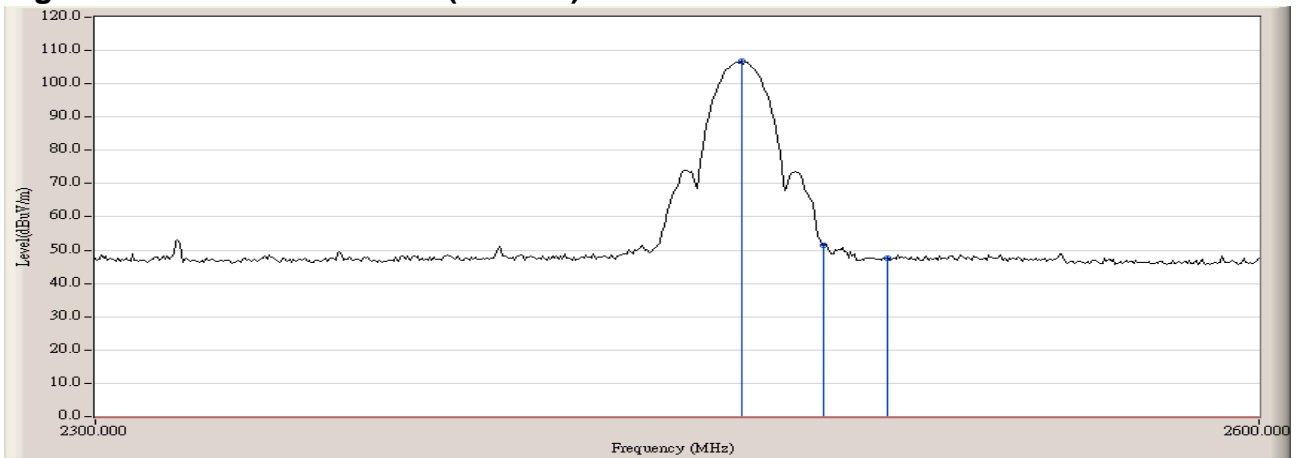
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11	>2483.5	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2483.500	53.173	51.543	74.00	N/A	Pass
00 (Average)	2483.500	N/A	N/A	N/A	54.00	Pass

Figure Channel 11: 2462MHz (Vertical)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	:	54M Wireless PCI Adapter
Test Item	:	Band Edge
Test Site	:	AC-2
Test Mode	:	Mode 2: Transmit by 802.11g (2412MHz)

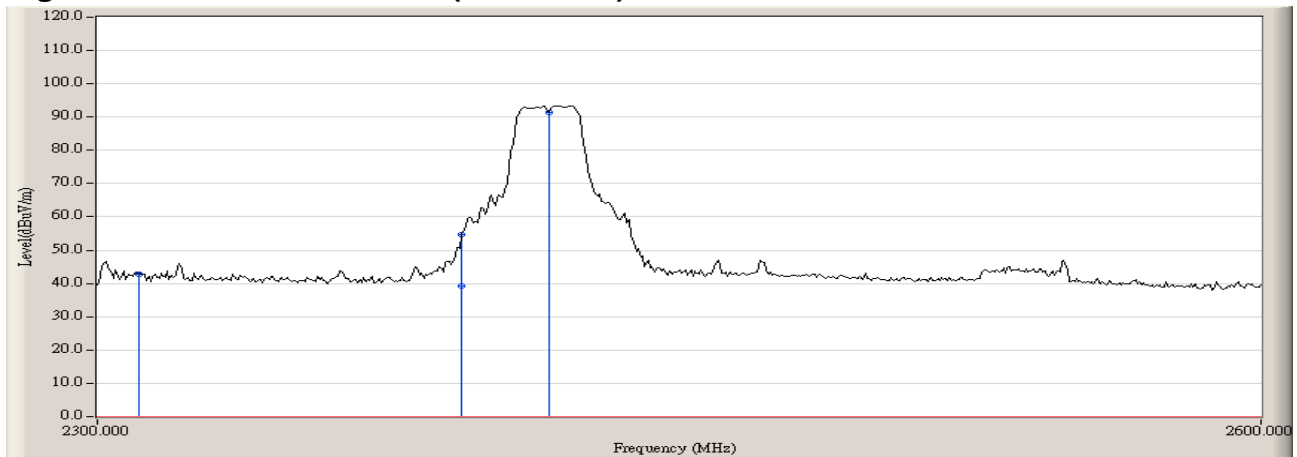
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
01	<2400	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	56.202	54.537	74.00	N/A	Pass
00 (Average)	2390.000	40.940	39.275	N/A	54.00	Pass

Figure Channel 01: 2412MHz (Horizontal)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	:	54M Wireless PCI Adapter
Test Item	:	Band Edge
Test Site	:	AC-2
Test Mode	:	Mode 2: Transmit by 802.11g (2412MHz)

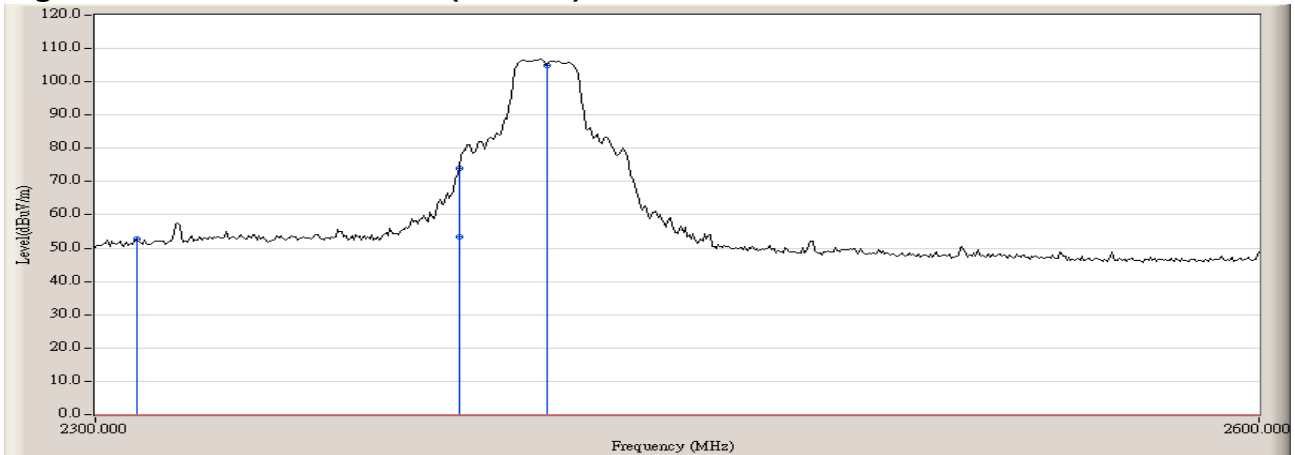
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
01	<2400	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	73.780	72.115	74.00	N/A	Pass
00 (Average)	2390.000	53.200	51.535	N/A	54.00	Pass

Figure Channel 01: 2412MHz (Vertical)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	:	54M Wireless PCI Adapter
Test Item	:	Band Edge
Test Site	:	AC-2
Test Mode	:	Mode 2: Transmit by 802.11g (2462MHz)

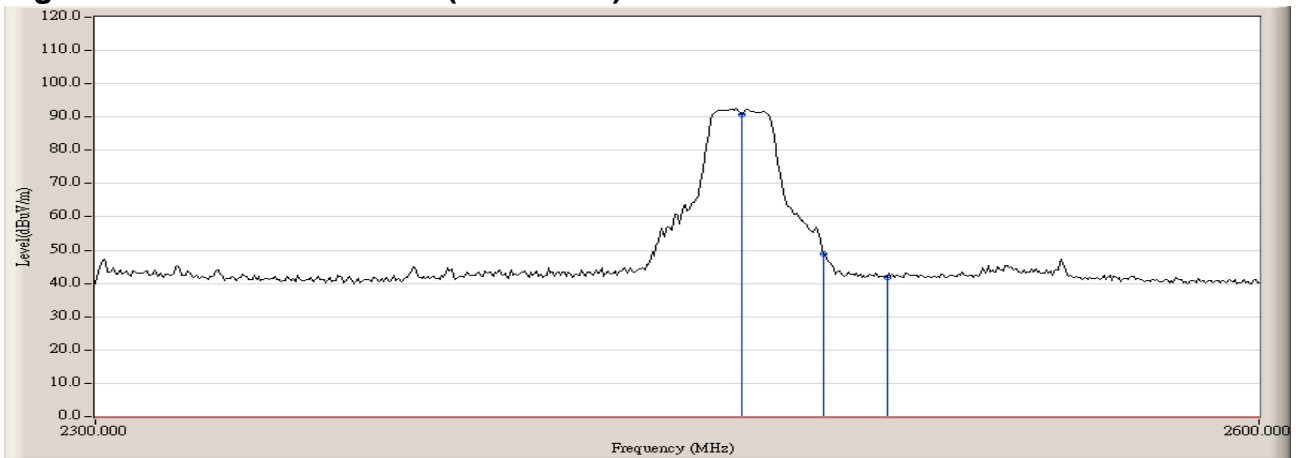
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11	>2483.5	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2483.500	50.688	49.058	74.00	N/A	Pass
00 (Average)	2483.500	N/A	N/A	N/A	54.00	Pass

Figure Channel 11: 2462MHz (Horizontal)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	:	54M Wireless PCI Adapter
Test Item	:	Band Edge
Test Site	:	AC-2
Test Mode	:	Mode 2: Transmit by 802.11g (2462MHz)

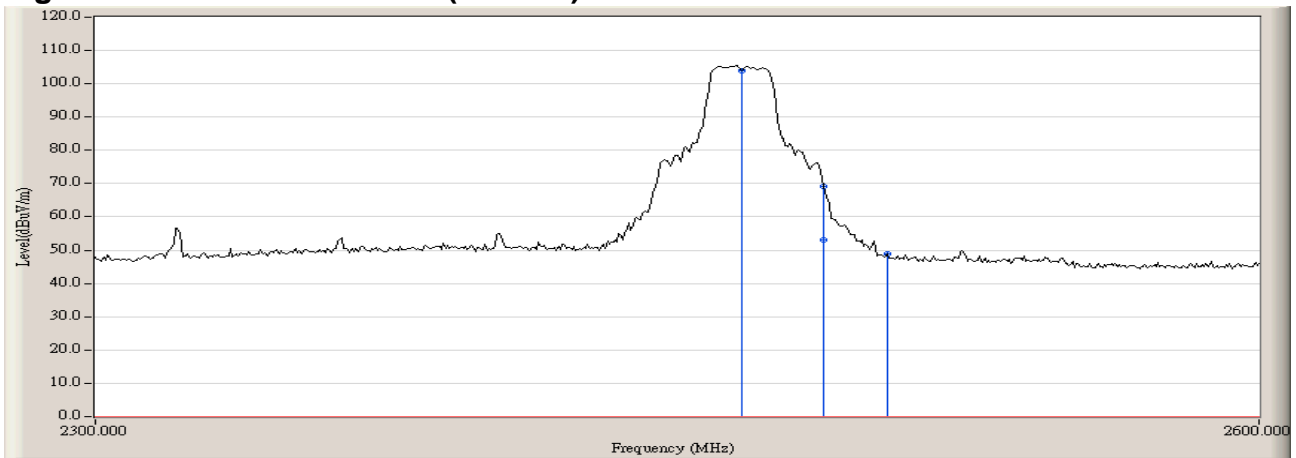
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11	>2483.5	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2483.500	70.838	69.208	74.00	N/A	Pass
00 (Average)	2483.500	54.830	53.200	N/A	54.00	Pass

Figure Channel 11: 2462MHz (Vertical)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

8. Peak Power Spectral Density

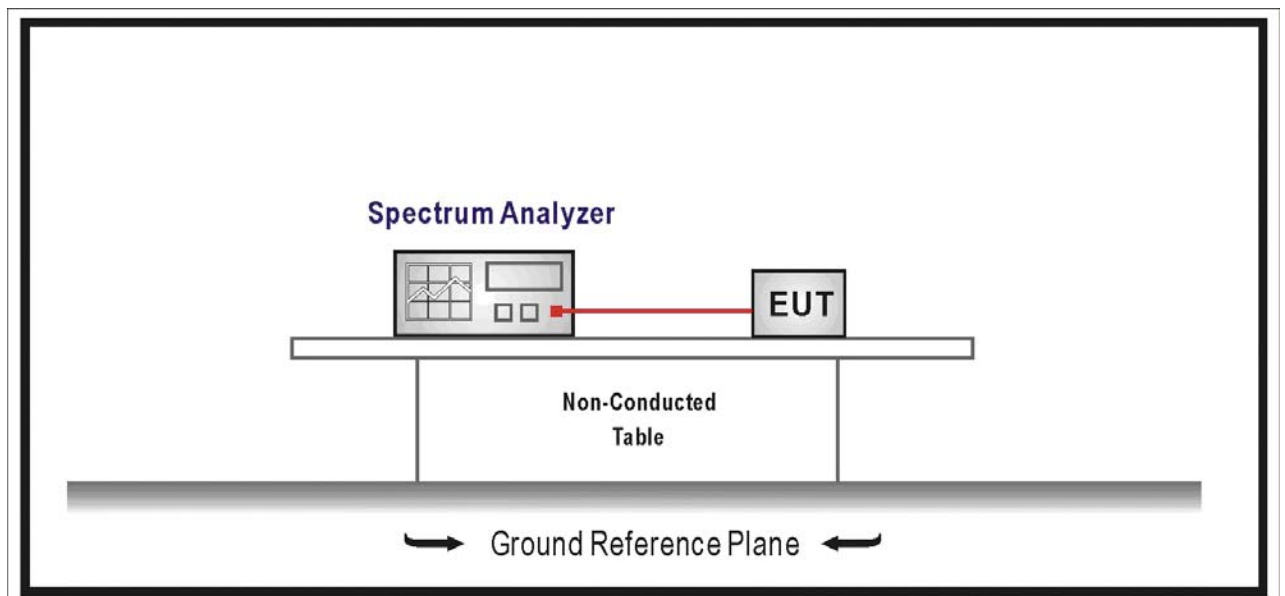
8.1. Test Equipment

Peak Power Spectral Density / AC-3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC3-RF	08	2006/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2007/03/31

8.2. Test Setup

RF Conducted Measurement



8.3. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiated to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

8.4. Test Procedure

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer.
- c) Add a correction factor to the display, and then test.

8.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

8.6. Test Result

Product	:	54M Wireless PCI Adapter
Test Item	:	Peak Power Spectral Density
Test Site	:	AC-3
Test Mode	:	Mode 1: Transmit by 802.11b

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-12.93	8	Pass
06	2437	-12.31	8	Pass
11	2462	-13.16	8	Pass

Figure Channel 01 (2412MHz)

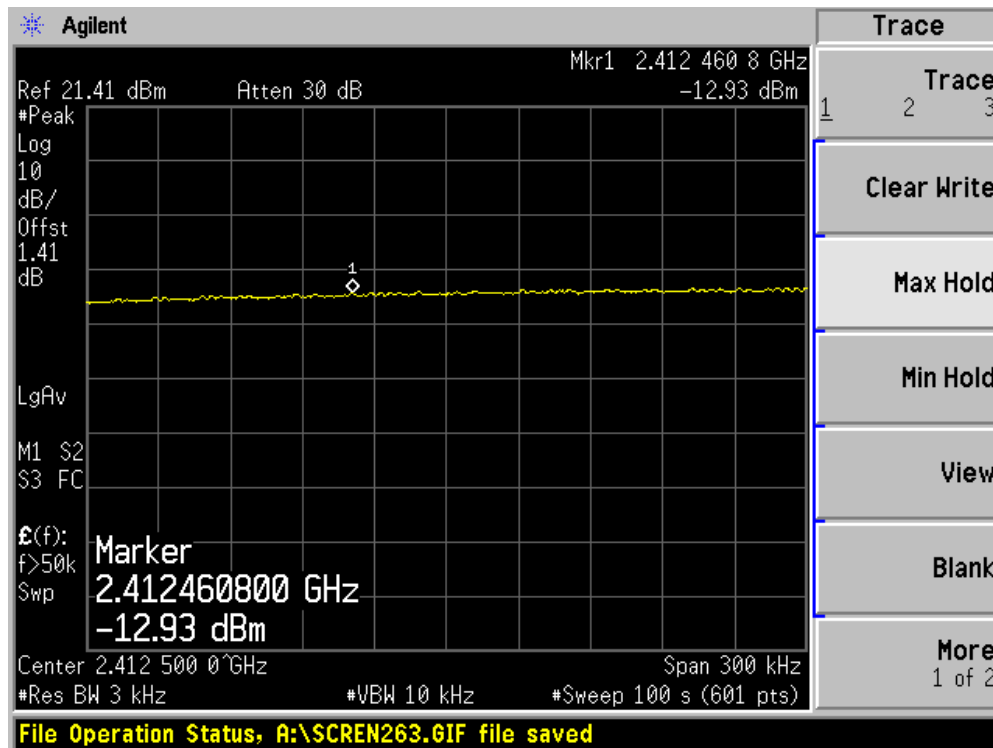


Figure Channel 06 (2437MHz)

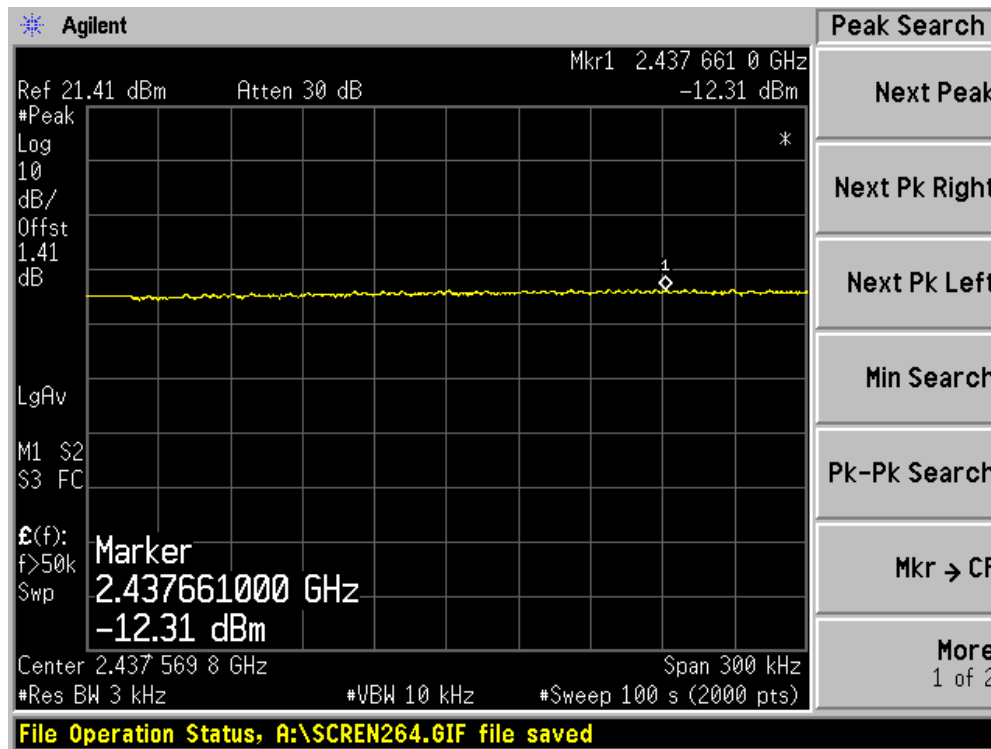
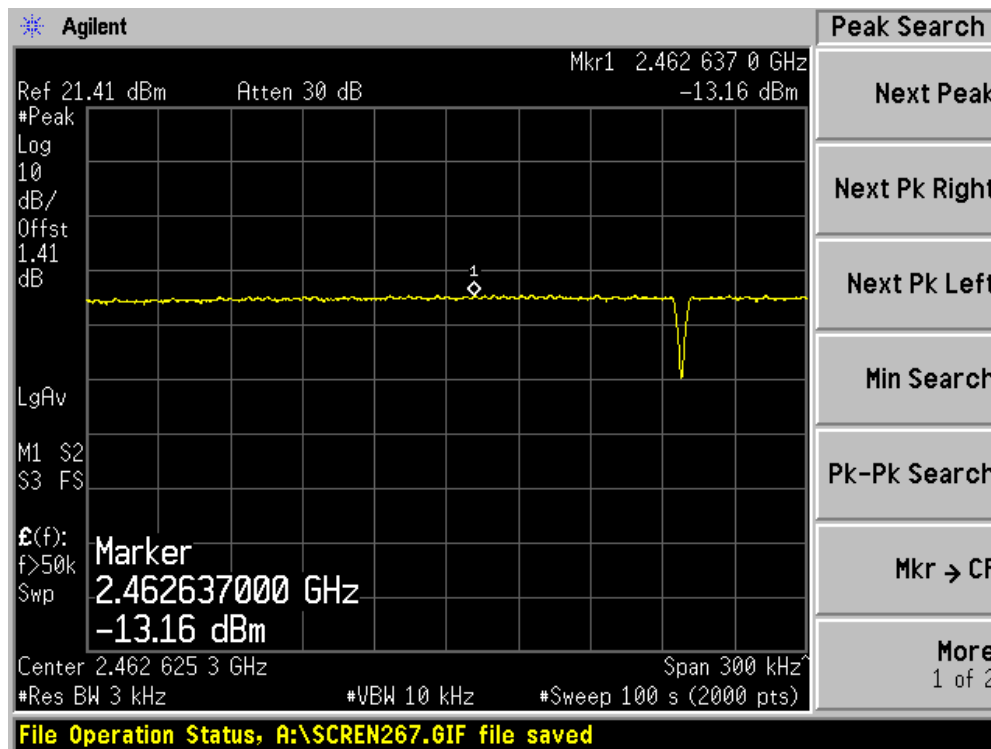


Figure Channel 11 (2462MHz)



Product	:	54M Wireless PCI Adapter
Test Item	:	Peak Power Spectral Density
Test Site	:	AC-3
Test Mode	:	Mode 2: Transmit by 802.11g

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-12.86	8	Pass
06	2437	-13.19	8	Pass
11	2462	-14.07	8	Pass

Figure Channel 01 (2412MHz)

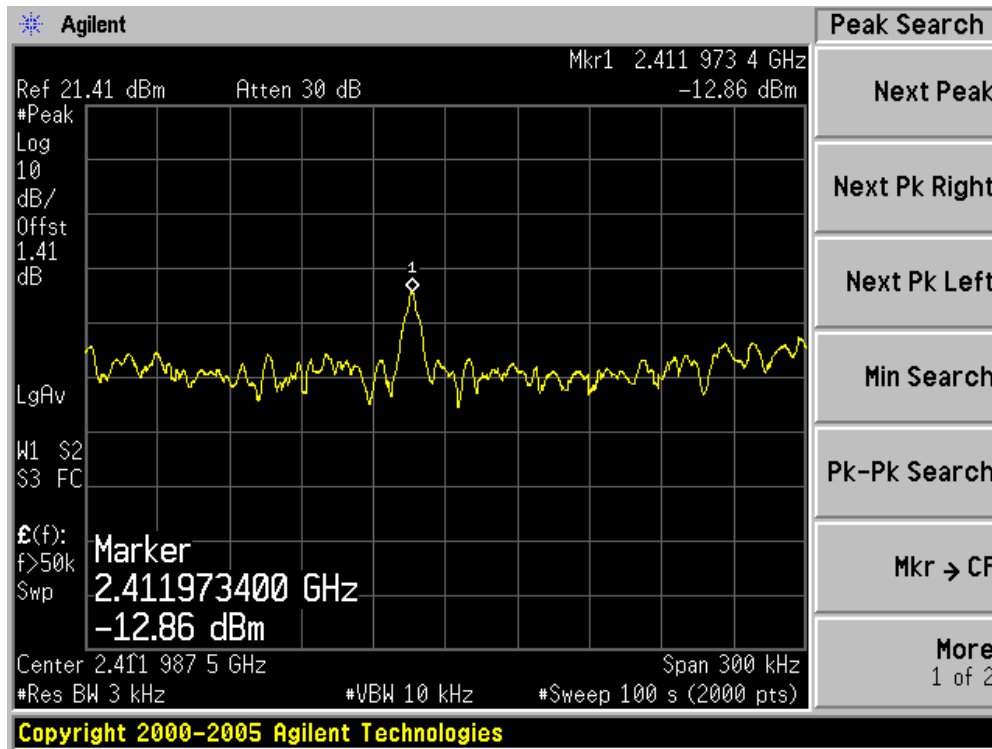


Figure Channel 06 (2437MHz)

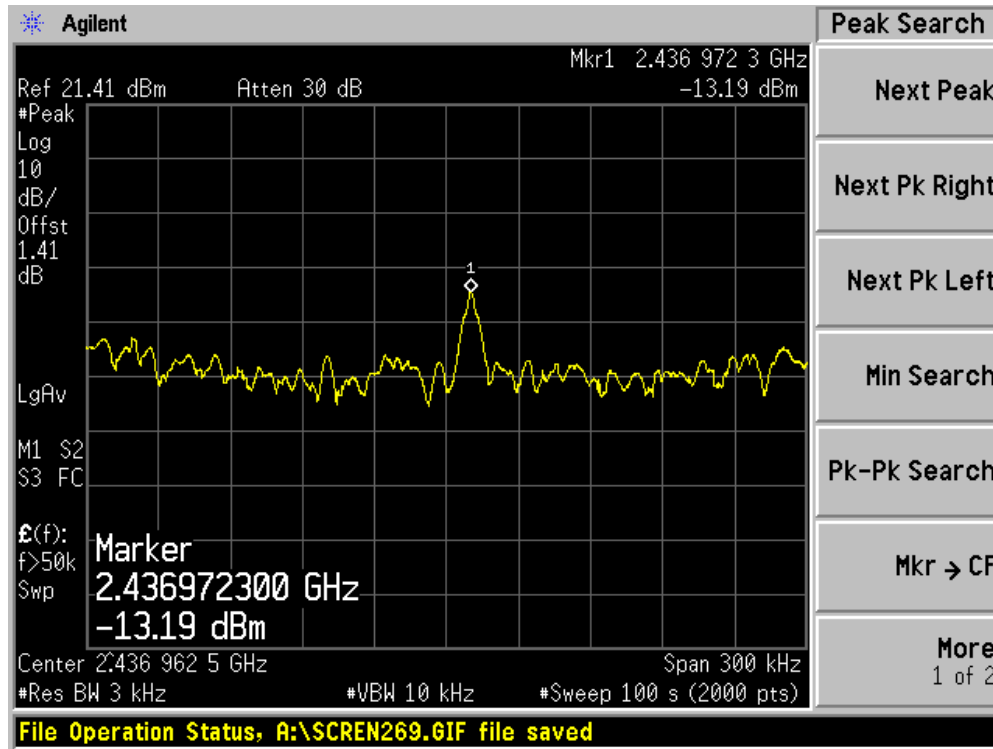


Figure Channel 11 (2462MHz)

